

Hawai‘i’s Green Workforce

Industry Profiles and Business Directory

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Foreword

The Department of Labor and Industrial Relations (DLIR) has actively sought to become a more effective partner in steering the State of Hawaii toward a sustainable green economy. Recognizing the rapidly evolving needs of the clean energy sector and the limitations of existing labor market information (LMI), Hawaii was one of several states selected by the U.S. Department of Labor's Employment & Training Administration to receive an LMI Improvement Grant funded through the *American Recovery and Reinvestment Act* (ARRA).

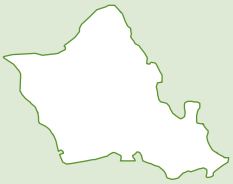
This publication supplements a report released in December 2010, *Hawai'i's Green Workforce: A Baseline Assessment*.

The first section of this report provides profiles of the three largest green industries, as measured by the number of green workers, in each of the state's four counties—Oahu, Hawaii, Maui, and Kauai. Summary statistics on occupation employment counts and wage data complement localized information on green development projects, companies, and training and educational opportunities. We envision these profiles will serve as a starting point for stakeholders within our community—whether they are job seekers, businesses or policy makers—to learn more about how they can become more actively involved with green workforce development.

The second half of this publication provides a directory of green businesses based on a *Hawaii Green Jobs Survey* completed in July 2010 (for details, please refer to the baseline report noted above). The companies listed are those that were included in the statistically-drawn random sample, reported green jobs, and agreed to be listed. By definition, exclusion from this list does not necessarily imply that a business does not provide green jobs.

We also provide two additional listings, produced by the state Department of Business, Economic Development & Tourism (DBEDT), of organizations that may be participating in green economic activity. Please contact the agency directly at the telephone number noted for any corrections or updates.

While we have made every effort to validate the accuracy of data in this publication, the State of Hawaii and Department of Labor & Industrial Relations (DLIR) provide the content for educational and informational purposes only. References to specific products, services or companies are for illustrative purposes only, and do not reflect an endorsement by the State of Hawaii, DLIR or its affiliated agencies.



O‘ahu: Green Jobs in Construction

INDUSTRY DEFINITION: The top-green industry on O‘ahu is the construction industry. The green construction sector in O‘ahu includes establishments engaged primarily in the construction and maintenance of green buildings, solar or wind energy systems, erosion control, and green retrofitting of existing buildings with features such as improved ventilation, insulation, or photovoltaic and thermal solar power systems. A recent example of green construction in O‘ahu is the 18-home Kaupuni subdivision in Wai‘anae Valley, which is the nation’s first community with a net-zero-energy use. In other words, the subdivision will use no more energy than it produces. The cost of the project is being defrayed by a $10.1 million grant from the American Recovery and Reinvestment Act of 2009 (ARRA).

INDUSTRY STATISTICS: Green construction on O‘ahu has the following key statistics:

- 2,246 jobs
- 33% of total green jobs
- 11% of O‘ahu‘s 21,382 construction jobs are green
- 192 current vacancies
- 3,392 projected jobs in 2012

As shown in the table on the next page, an estimated 373 insulation workers were employed doing green construction in 2010. This includes floor, ceiling, wall, and mechanical insulation workers, whose labors usually conserve energy and are therefore typed as green. Insulation workers on O‘ahu are estimated (by employers) to increase to 546 by 2012.

By their nature green, an estimated 182 Environmental Science and Protection Technicians (including Health) were involved in green construction in 2010. These technicians typically perform field and laboratory tests to investigate pollution sources. Sample collection includes soil, gas, water, plants, and other items that may show evidence of pollution. In 2010 this occupation had an estimated ten vacancies.

Solar photovoltaic installers typically install photovoltaic systems, including panels and inverters. Only licensed electricians are qualified to connect this solar system to the electrical power grid. Photovoltaic installers on O‘ahu are projected by employers to increase from 175 in 2010 to 578 in 2012, an increase of 404 jobs. Employers reported an estimated 55 vacancies in the first quarter of 2010.

In addition to electricity, much of the green construction industry on O‘ahu is based on the installation of solar thermal equipment for the provision of hot water and cool air. Much of this is low-temperature hot water heaters for swimming pools that require plumbing expertise for installation, but solar thermal energy can be used for cooling as well. Solar chimneys facilitate an updraft that pulls cool exterior air into a building, and solar mass (such as stone and concrete) absorb heat during the day and radiate it at night. Properly installing this equipment requires specialists who are trained in solar thermal techniques, but only licensed plumbers are qualified to connect the system to potable water sources. Solar thermal installers are projected to increase from 158 in 2010 to 246 in 2012 (89 new jobs). There are an estimated 84 plumbers on O‘ahu who specialized in green activities.

Green construction activities include the construction of Leadership in Energy and Environmental Design (LEED) and other energy- and material-efficient buildings. Some local building codes in the State include more stringent environmental measures than are required by LEED. Construction carpenters and laborers who abide by some set of green principles would be considered green by these criteria. Green construction laborers are projected at 156 for 2010, and green construction carpenters are projected by employers to increase from 145 in 2010 to 179 in 2012. Green construction supervisors are also likely to grow, from 144 in 2010 to an employer-estimated 191 in 2012. There were an estimated 10 vacancies for green construction supervisors in the first quarter of 2010.

O'ahu: Construction	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Insulation Workers—Floor, Ceiling, and Wall	190	250	n/a	$25,800
Insulation Workers—Mechanical	183	296	n/a	$52,850
Environmental Science and Protection Technicians, including Health	182	196	10	$43,610
Solar Photovoltaic Installers	175	578	n/a	$45,990
Hazardous Materials Removal Workers	160	160	10	$41,050
Solar Thermal Installers and Technicians	158	246	n/a	$45,990
Construction Laborers	156	156	40	$51,860
Construction Carpenters	145	179	130	$65,780
Supervisors / Managers of Construction and Extraction	144	191	50	$76,040
Plumbers	84	84	70***	$56,040

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation
*** Includes Plumbers, Pipefitters, and Steamfitters

GREEN CONSTRUCTION PROJECTS: In order to find green construction employment opportunities on O'ahu, it will be useful to search the latest news on green construction. The ARRA invested $110 million in grants to be spent in the County of O'ahu through 2012. The top ARRA green construction projects for O'ahu County include:

- $24 million for EDS Airport Baggage Check Improvements
- $15 million for replacement of South Punaluu Stream Bridge
- $9 million for Waimalu Sewer Rehabilitation / Reconstruction
- $6 million for H-1 Highway Concrete Preservation
- $5 million for Puupeelua Avenue Resurfacing
- $5 million for Kukui Gardens Rental Project

Green construction job applicants in the County may apply to the contractors who were or are involved in the above construction projects, but should look more widely as well by doing research online and through targeted informational interviews of persons in the green construction, government and non-profit sectors.

GREEN INSULATION: Examples of companies that do green insulation on O'ahu are: Group Builders Inc., American Industrial Insulation, Petrochem Insulation Inc., and Commercial Insulation Corp.

Job titles include Insulator, Industrial Insulator, Plasterman, and Mechanical Insulation Technician. Job descriptions include exterior insulation finish systems, fireproofing, air pollution mitigation, and insulation in-

stallation (including on piping, vessels, tanks, columns, and mechanical equipment).

Training requirements vary, but may include trade union apprenticeship, private training courses, hazardous materials training, and an associate's degree from a community college.

SOLAR PHOTOVOLTAIC AND ELECTRICAL: Solar photovoltaic systems, including panels and inverters, are installed by trained specialists titled Solar Photovoltaic Installers. However, licensed Electricians are required to connect the photovoltaic system to the power grid.

Examples of companies hiring solar photovoltaic installers and green electricians include SunRun, Energy Industries, Giant Solar, P&T Solar Company, Tropical Wholesale, Commercial Electric, Adon Construction, Pacific Energy Strategies, EPC Service Inc., Wikinson Shake, Hoku Scientific, Hawaiian Island Solar Photovoltaic, Sunetric, Alternate Energy Inc., and Greenpath Technologies.

Specialists in solar photovoltaics on O'ahu have job titles such as Lighting Retrofit Techs, Solar Photovoltaic Systems Installer, Solar Photovoltaic Installer, Electrician Journeyman, Solar Technician, Electrician, Solar Fan Installer, and Photovoltaic Technician. Job descriptions typically involve tasks such as install and repair energy-efficient lighting fixtures, install photovoltaic panels, install solar fans, and maintain photovoltaic systems.

Useful training for photovoltaic and electrician positions include a journeyman electrician's license, community college associate's degree in electrical work, and up to 5 years of on-the-job training.

SOLAR THERMAL AND GREEN PLUMBING: Solar thermal is the use of the sun's heat, as opposed to its light (photovoltaics), for the cooling and heating of air and water. Solar thermal work is done primarily by heating, air-conditioning, insulation, masonry, and plumbing experts.

Examples of companies in O'ahu doing solar thermal and green plumbing work include P&T Solar Company, Altres Inc, Yamadas Plumbing, Delta Plumbing, Dorvin D. Leis Co., Honolulu Pool Service, Sopogy Inc., Lighthouse Solar, Giant Solar, and Hawai'i Kai Plumbing.

These companies have hired Solar Hot Water Systems Installers, Solar Installers, Plumbers, Plumber Apprentices, Plumber Journeymen, Swimming Pool Solar Heating Specialists, and Engineers. Job tasks for these occupations include installation of solar hot water tanks and panels, installation of 80 and 120 gallon thermal systems, replacement of plumbing fixtures with low-flow fixtures, and installation of water-efficient plumbing, including water and waste pipes.

Training includes union-sponsored plumber's license courses, apprenticeship training, private seminars and training, community college classes, and on-the-job solar thermal training. The Plumbers and Fitters UA Local Union 675 and ABC offer extensive plumbing courses in Honolulu, including a 28-hour Local 675 course dedicated to solar thermal installation.[1]

GREEN CARPENTRY AND DESIGN: Green construction companies in O'ahu include R&D Technologies, Pankow Corp, Ferraro Choi and Associates, Aluminum Shake Roofing, Island Recycling, Rider Levett Bucknall, ESN Pacific, Andrew L. Dixon, Valley Well Drilling, WTN Architecture, The Phoenician, Wiseco Development, Barker Kappelle Construction, Dumore Construction, and O'ahu Handyman.

Job requirements and duties in the green construction field include knowledge and application of sustainable practices in design and construction, LEED or other green building requirements, use of recycled construction materials, and cooperation with other builders to implement low-energy measures such as venting, photovoltaics, and solar thermal design. Green construction workers practice abatement, specialist trades, design and specify sustainable buildings and utilities, install energy-efficient cooling systems and recycled construction materials such as aluminum roofs, manage construction projects, operate excavation machines, including picking up and trans-

1. http://plumbershawaii.com/v2n4a6.php

porting material via a Bobcat, load shipping containers, provide general advice for green sustainable construction, collect of soil samples and install wells, collect groundwater EPA and DOH samples, install solar water pumps, train employees on reclaiming solvents and other environmentally friendly practices, drill borings, and administer, promote and direct sustainable construction projects.

Job titles in the green construction field include construction laborers, architects, roofers, construction managers, operating engineers, earth drillers, apprentice carpenter, construction carpenters, project manager, heavy equipment operator, water well driller, foreman, and geothermal loop system driller.

For construction carpenters, green employers generally require associate's degrees in applied sciences from a community college such as Honolulu Community College, Leeward Community College, or Kapi'olani Community College, and CPR and safety certifications. More than one year of green on-the-job training is also an important part of being a green construction carpenter. Certifications required by O'ahu employers include training in CAD, REVIT, Laborers Training School, PSHA, Hazardous Materials, CPR, First Aid, Abatement, Architectural License, LEED Accreditation, certifications on various equipment, and US Green Building Council (USGBC) certification. Informal education includes on-the-job training in green alternatives, health and safety, wiring, splicing, pump setting, and drill operations.

For those interested in green architecture, drafting courses and bachelor's degrees are available at UH Mānoa. Extensive courses are available in AutoCAD and Construction Drawings, and LEED training is available online. The Hawai'i Building Industry Association (BIA) Built-Green certification is also useful in understanding green approaches to construction carpentry.[2]

2. http://biahawaii.org/displaycommon.cfm?an=1&subarticlenbr=48

O‘ahu: Green Jobs in Administrative and Waste Services

INDUSTRY DEFINITION: One of the top two green industries in O‘ahu is Administrative and Waste Services. The green aspects of this Administrative sector include support activities—including management, clerical, communication, security, cleaning, and waste services—for the daily operations of the entire economy. Some green administrative jobs will be found in companies that specialize in green products, for example secretarial work in a wind power company. Other jobs are likely green by nature—for example environmental science and protection technologists and sustainability specialists and recyclers. Sustainability specialists address organizational issues related to sustainability, including the management of waste streams, implementation of green building principals, and green procurement.[3]

GREEN STATISTICS: Key statistics for green administrative jobs in O‘ahu are:

- 1,528 current jobs
- 1,597 projected jobs by 2012
- 22% of the administrative sector in O‘ahu is green
- 5% of 31,010 total current administrative jobs in O‘ahu are green
- Fewer than 25 current vacancies

O‘ahu green employments include an estimated 590 Forest and Conservation Technicians, 551 Security Guards, 101 Janitors and Cleaners (non-maids/housekeeping), 103 Sales Representatives (including both solar and other technical), 70 Landscaping and Groundskeeping Workers, 41 Tree Trimmers and Pruners, and relatively large additional occupations including Soil and Water Conservationists, Couriers and Messengers, and Power Plant Operators.

While all occupations listed in the table have fewer than 15 estimated vacancies in O‘ahu (with Janitors and Solar Sales Representatives having the most current vacancies), several are projected to experience significant growth by 2012, including Landscaping and Groundskeeping Workers, and Forest and Conservation Technicians.

FOREST AND CONSERVATION TECHNICIANS: Forest and Conservation Technicians provide assistance of a technical variety regarding conservation of water, soil, forests, and other natural resources. In the data on O‘ahu, this includes conservationists who treat areas adjacent to marine habitat, as well as ecological restorationists such as invasive species eradicators.

Most conservation employment opportunities are through government agencies and non-profit organizations, and the private contractors (for example Altres Inc and Ka‘ala Farm) that they hire. As a government and business center for the State, O‘ahu has plentiful government and non-profit conservation organizations and agencies. These include the Hawai‘i Nature Center, the Hawai‘i Audubon Society, the Conservation Council of Hawai‘i, the Hawai‘i Conservation Alliance, the Nature Conservancy, Hawai‘i State Department of Land and Natural Resources (Division of Forestry and Wildlife), the O‘ahu Resource Conservation and Development Council, the O‘ahu Conservation Partnership, the Private Lands Initiative, Hawai‘i Nature Center, Hawai‘i Water Environment Association, Hawaiian Botanical Society, the Hawai‘i Chapter of the Sierra Club, and the Trust for Public Land.

In addition to environmental science courses at the O‘ahu Community Colleges and University of Hawai‘i, extensive volunteer opportunities are available in the area of conservation. Given that the State is an island habitat, some marine conservation programs are included here. Volunteer conservation opportunities include the Nature Conservancy’s Asia Pacific Marine Program, the National Tropical Botanical Garden, Haleakalā National Park, the Progressive Kalihi Watershed Association, UH Sea Grant Hanauma Bay Education Program, the Dolphin Institute, Papahana Kuaola He‘eia Stream Restoration, and the Lyon Arboretum.

3. DLIR Green Jobs Report, 2010, p. 28

O'ahu: Administration and Waste Management	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Forest and Conservation Technicians	590	610	n/a	$38,120
Security Guards	551	551	230	$25,600
Janitors/Cleaners, except Maids/Housekeeping	101	113	270	$24,970
Sales Representatives—Wholesale and Manufacturing, Tech, and Scientific	79	91	10	$54,740
Landscaping and Groundskeeping Workers	70	98	120	$28,650
Tree Trimmers and Pruners	41	50	10	$32,500
Solar Sales Representatives and Assessors	24	24	n/a	$54,740
Soil and Water Conservationists	21	21	n/a	$73,520
Couriers and Messengers	21	21	10	$23,880
Power Plant Operators	11	11	10	$67,900

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation

SECURITY GUARDS: While the majority of security guards are tasked with protecting real estate, capital assets and public safety, an increasing number are also responsible for pollution deterrence, environmental regulation enforcement and the safeguarding of hazardous materials from the general public.

Companies that offer green security guard service in O'ahu include, for example, the Honolulu Merchant Patrol, Star Protection Agency, Securitas, Freeman Guards, Guardmark, Safeguard Services, API Security, and Wackenhut.

GREEN CLEANING AND HAZMAT: Green janitorial and cleaning services on O'ahu are significant, with some large cleaning companies using almost entirely green products and marketing themselves as such. Green cleaners have titles such as Window Cleaner, Janitor, Houseman, General Laborer, and Utility Cleaner. They are primarily distinguished from their non-green counterparts by a near-exclusive use of green or organic cleaning products, including low and non-VOC products for industrial cleaning tasks.

Examples of green cleaning and janitorial companies in O'ahu, and companies that hire cleaners who work primarily with green products, are: Sunshine Green Cleaning, Green Cleaning Services, Maid Brigade, Terry's Window Cleaning, Simple Green of the Pacific, Nordstrom, DAJ Carpet Cleaning & Restoration, Spectacor Management Group, International Wastewater, Go Green PRO Clean, and the Airport Trade Center. Janitorial and cleaner training is primarily on-the-job.

Environmental Science and Protection Technicians specialize in cleaning hazardous materials, for example petroleum or hazardous material spills in the marine environment. This is a highly-skilled profession requiring extensive on-the-job training and certifications, including in the areas of health, safety, and even helicopter pilot training. Examples of employers of environmental

technicians in O'ahu include Nakoa Inc, Tetra Tech, American Marine Corporation and Kagami Inc.

GREEN SALES: The growing green economy requires occupations designed to provide information to potential customers. This occupation is that of salesperson. Companies hiring green salespersons in O'ahu include, for example, Premium Inc., Ferguson Enterprises, Hagadone Printing, Adon Construction, Kreative Kamaaina Enterprises, Desert Watch Security, Kleenco Corp., Superior Technology, Honolulu Seawater, GP Roadway Solutions, and Reynolds Recycling.

Green salespersons on O'ahu educate potential customers about diverse products, including for example Kvar and wind turbine products, window coverings, solar products, green cleaning chemicals, green cleaning equipment, bagasse (plant matter discarded during sugar-cane processing), low-flow plumbing fixtures, and scrap metal. Salespersons also educate consumers of opportunities for recycling and reuse, for example by United Cerebral Palsy Association and Goodwill Industries.

Sales training can be obtained through business and communications courses at local community colleges on O'ahu, as well as four-year programs at the University of Hawai'i. On-the-job or manufacturer training to supplement formal education is usually an essential part of being a successful salesperson.

GREEN LANDSCAPING: Green landscaping in O'ahu includes job titles such as designer, architect, horticulturalist, irrigation laborer, landscape contractor, farmer, gardener, arborist, tree trimmer, pruner, groundskeeper, golf greens mower, sod farmer, agricultural field technician, nursery operator, and natural resource field technician. Green landscapers require on-the-job training (OJT) to

- install draught-tolerant plants
- use worm tea as fertilizer
- recycle cuttings and chipped green waste for mulch and compost, and
- install smart irrigation systems that automatically respond to changing weather conditions and provide drip flows measured precisely for terrain and plant varieties.

Green landscaping professionals are hired by, or teamed with, O'ahu companies such as: Island Green Landscaping, Fred Lau Hawaiian Landscape, Green Hawai'i Landscaping, Landscape Hawai'i Inc., Hi'ipaka LLC, and Inter-Island Diversified Inc.

Several O'ahu-based organizations provide employment information and volunteer opportunities to the prospective green landscaper job applicant. These include the Landscape Industry Council of Hawai'i, Aloha Arborist Association, Hawai'i Association of Nurserymen, Hawai'i Landscape and Irrigation Contractors, Hawai'i Society of Urban Forestry Professionals, Professional Grounds Management Society, Hawai'i Turfgrass Association, and Hawai'i Professional Gardeners Association.

Landscape professional education can be achieved at the high-school, college, university, and professional certification levels. At the high-school level, for example, the Cooperative Extension Service of the College of Tropical Agriculture at the University of Hawai'i advises 4-H youth in starting environmental clubs and working in an environmental ecosystem in Pearl City. Kupu Hawai'i Youth Conservation Corps and the Windward District of the Honolulu Community Action Program offers Agricultural Training and Education (ATE) to youth and low-income families.

The Windward Community College offers courses such as plant propagation, turfgrass management, irrigation principals and design, pesticide safety, and turfgrass equipment. Kapi'olani Community College offers coursework in oceanography, zoology, biology, and botany for a more academic approach that would be useful in going on to a four-year degree. In botany, courses include botany laboratory, ethnobotany, and plants in the Hawaiian environment.

CONTACTS

- Hawai'i Conservation Alliance, (808) 687-6152
- Landscape Industry Council of Hawai'i, http://landscapehawaii.org
- Kupu Hawai'i Youth Conservation Corps, (808) 735-1221

O‘ahu: Green Jobs in Professional, Scientific and Technical Services

INDUSTRY DEFINITION: One of the top three green industries in O‘ahu is Professional, Scientific and Technical Services. This sector includes activities that require a high degree of expertise and training, for example legal advice, accounting, payroll, architectural design, engineering, computer services, consulting, research, advertising, and photography.

GREEN STATISTICS: Key statistics for green professional, scientific, and technical jobs in O‘ahu are:

- 780 current jobs
- 11% of total green jobs
- 4% of total county jobs
- 95 vacancies
- 1,069 projected jobs for 2012

The greatest number of green jobs in the professional sector is for engineers. There are an estimated 144 green jobs for civil engineers alone in O‘ahu, the largest number of jobs for one occupation in the professional sector, increasing to 161 estimated jobs in 2012. The greatest change in green professional jobs on O‘ahu is estimated to occur for Environmental Scientists, who are projected by employers to increase from 110 in 2010 to 139 in 2012. The largest quantity of vacancies currently estimated are for General and Operations Managers, which is estimated at nearly 15.

GREEN ENGINEERS: Green engineers in O‘ahu span the breadth of engineering professions, but are especially concentrated in the professions of Project Engineers, Field Engineers, Structural Engineers, Electrical Engineers, Energy Engineers, and Design (Civil) Engineers. Other green engineers include Technical Services Engineer, Mechanical Designer, Transmission Planning Engineer, Designers, Safety Engineer, Civil Engineers, Environmental Compliance Engineer, Energy Efficiency Engineer, Energy Planning Engineer, Protection Engineer, and Photovoltaic Designer. As should be apparent from the above, engineering tasks are many-sided, and include duties across the spectrum of industrial activities.

CONSTRUCTION ENGINEERS: Green construction-related engineers facilitate and monitor construction projects, ensure daily safety compliance and the progress and quality of work, make overall decisions to handle recycling materials, apply best green construction methods to projects, ensure technical execution, inspect the quality and conformance of field installation to construction documentation, reduce construction plans and specifications into finite information that can be executed by field personnel, and monitor safety standards set by OSHA & Fed Govt’s EM385. Many construction engineers practice additional licensed consulting, land development (usually in conjunction with non-green work depending on the architect). Other construction engineers design energy-efficient air-conditioning and plumbing systems.

LEED-certified engineers ensure LEED practices are followed where the building is up to LEED certification, design renewable energy systems, implement LEED principles in all possible areas of C.E. design, R&D of photovoltaic and solar systems, and design sustainable and/or LEED projects. They manage the LEED certification process, design support structures for installation of energy-efficient utilities such as solar photovoltaic or geothermal, and design photovoltaic systems per client specifications and optimal efficiency considerations. LEED-certified engineers design electrical systems, civil and structural engineer, photovoltaic systems, energy conservation, and even ocean water cooling systems.

ELECTRICAL ENGINEERS: Electrical engineers provide electrical design and specifications for the use of energy efficient lighting and distribution systems. Energy engineers ensure day-to-day regulatory compliance at Energy Delivery facilities and installations relative to Federal, state, and county environmental regulations for air, water, hazardous materials, and noise.

Engineers employed by large energy companies oversee implementation of projects, carries out tactical environmental compliance programs at the facilities relying

O'ahu: Professional, Scientific, and Technical	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Civil Engineers	144	161	30	$76,910
Electrical Engineers	124	135	20	$84,300
Environmental Scientists and Specialists, including Health	110	139	20	$68,050
Architects, except Landscape and Naval	59	63	10	$76,840
Mechanical Engineers	53	62	10	$80,310
General and Operations Managers	46	49	300	$102,650
Energy Engineers	40	59	n/a	$79,880
Interior Designers	39	43	10	$53,060
Engineering Managers	29	30	10	$114,720
Urban and Regional Planners	26	40	10	$67,460

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation

on in-house environmental departments for strategic environmental support. Internal to the company, such engineers serve as primary points of contact on all environmental compliance matters involving the energy delivery process area. Under the general direction of the director of generation planning, such engineers perform planning and engineering analyses, project management and other assignments to evaluate and recommend plans, policies, and methodologies for the development and enhancement of electrical power systems, including the integration of supply-side and demand-side and transmission and distribution system needs.

Utility company engineers serve as a technical resource in the areas of power quality, power systems, control systems, commercial electro-technologies, data acquisition and instrumentation, and energy efficiency. They prepare project proposals and financial analyses and act as project engineers/construction managers for energy efficiency projects in the commercial, governmental, and residential sectors. They perform customer technology applications research, investigation planning, and implementation. Engineers keep in close contact with, and effectively utilize EPRI and EPRI resources, as well as administer, plan, schedule, and budget customer efficiency programs. They coordinate program implementation activities, develop and implement strategies and programs, and provide project management services for distributed generation and distributed energy storage systems. Engineers provide leadership in actual deployment of energy efficient technologies to meet utility system and customer needs, especially for integration of greater amounts of renewable energy. The engineer on such projects provide program management, project management, project engineering, and technical expertise for renewable energy programs to evaluate and demonstrate renewable energy and non-oil fossil fuel electric generation technologies for utility-scale electric generation, as well as manage, coordinate, and direct operations of renewable energy planning divisions. Engineers facilitate, through a matrix organization, the

integration of renewable energy projects into all grid systems. Engineers lead the development of appropriate strategies, methods, plans, and policies to achieve successful integration of renewable energy projects while sustaining reliable grid operation, including the development of project performance standards, interconnection requirements, and grid-side mitigation measures.

Energy engineers evaluate, recommend, and plan relay protection schemes, relay settings, and protective devices for generating resources and electrical transmission systems, and electrical sub-transmission and distribution systems. Engineers direct and review the technical aspects of long- and short-range transmission planning studies, technical studies, preparation of transmission substation conceptual layouts, inputting projects into the capital expenditures budget, providing regulatory support performing operations, planning studies, performing general related functions, maintain pertinent system data, support the administration of IPP's and on-site generation.

MARITIME ENGINEERS: Maritime engineers do CFD programming for research/testing purposes that focus on ship-based maritime technologies that will help ships realize up to 30%+ in fuel savings, and develop processes and models in maritime technologies that will help ships realize up to 30%+ in fuel savings.

PROFESSIONAL GREEN EDUCATION: The primary location for an education as a green professional is a four-year college such as the University of Hawai'i (UH). For example, UH has programs in Environmental Engineering, Electrical Engineering, and Mechanical Engineering.[4] A primary skill that all UH engineering students are expected to obtain during their education is the ability to design a system, component, or process that meets constraints explicitly including environmental , health, safety, and sustainability. There is a technical elective in sustainability that includes classes such as Sustainability, Biomass Conversion, Human Role in Environmental Change, Energy Conversion Systems, and Climate Change.[5]

4. http://www.eng.hawaii.edu
5. http://www.cee.hawaii.edu/content/undergrad.htm

CONTACTS

- University of Hawai'i at Mānoa, College of Engineering, (808) 956-7727



Hawai'i County: Green Jobs in Construction

INDUSTRY DEFINITION: The green construction sector in Hawai'i includes companies engaged primarily in the construction of green buildings, solar or wind utility systems, and green retrofitting of existing buildings with features such as improved ventilation, insulation, or solar power systems. The largest number of green jobs in the County of Hawai'i are in the construction industry.

COUNTY STATISTICS:

- 488 green construction jobs in 2010
- Green construction accounts for 40% of total green jobs and 14% of all jobs
- 18 current green construction vacancies
- Projected 585 green construction jobs in 2012

An estimated 122 of Hawai'i County green jobs are construction carpenter jobs, with other major green construction employment opportunities in the electrician and plumber fields. In addition to projected change between 2010 and 2012, electricians are estimated to have the greatest number of current vacancies in Hawai'i County at 17 as compared with fewer than 5 vacancies each for the other nine major green construction occupations listed in the table.

GREEN ACTIVITY: Much of the green construction industry in Hawai'i County is based on the installation of solar photovoltaic panels for the provision of electricity and solar thermal installations for the provision of hot

Hawai'i County: Green Construction	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Construction Carpenters	122	126	130	$56,660
Electricians	94	128	80	$56,880
Plumbers	72	88	70****	$55,630
Heating / AC Mechanics / Installers	55	55	10	$62,790
Solar Photovoltaic Installers	39	49	n/a	$30,270
Insulation Workers—Floor, Ceiling, and Wall	32	32	n/a	$25,800***
Solar Thermal Installers and Technicians	21	36	n/a	$30,270
Construction Laborers	16	16	40	$42,720
Coating / Painting / Spraying Machine Operators	16	24	n/a	$29,140
Installation, Maintenance, and Repair Workers	9	12	20	$48,610

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation
*** Based on Hawai'i State Average
**** Includes Plumbers, Pipefitters, and Steamfitters

water and cool air. In addition to solar installers, these solar thermal requires licensed plumbers and electricians to plug into potable water and power grids. Other green construction activities include the construction of Leadership in Energy and Environmental Design (LEED) and other energy- and material-efficient buildings, which require construction carpentry, and improved insulation and venting techniques.

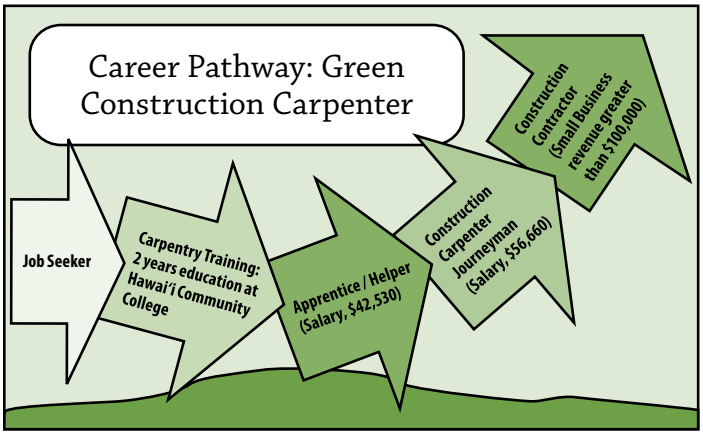
CONSTRUCTION PROJECTS: In order to find green construction employment opportunities in the County of Hawai'i, it will be useful to search the latest news on green construction. Foremost among these as of this writing are construction projects funded through the American Recovery and Reinvestment Act of 2009 (ARRA), which invested approximately $47 million in 19 green grants to be spent in the County of Hawai'i through 2011.

The top-10 ARRA green grants for Hawai'i County in money terms are all construction-related. These include:

- $16 million to improve energy efficiency at the Hilo Federal Building,
- $7.8 million to build an emergency operations center at Hawai'i Volcanoes National Park,
- $6.2 million for improvement of wastewater facilities at Honoka'a,
- $5 million for construction of a Pacific Basin Agricultural Research Center in Hilo,
- $2.7 million for erosion control at Pelekane Bay,
- $1.9 million for installation of photovoltaic systems in the Pōhakuloa Training Area,
- $1.8 milllion for the Lower Hāmākua Ditch Watershed (repair of ditch linings, exclusion fencing, a Supervisory Control and Data Acquisition system, eight distribution lateral systems, and on-farm land treatment practices to be completed by 2017[6]), and
- $1.3 million for replacement of the Komohana Heights cesspool.[7]

6. http://www.nrcs.usda.gov/about/legislative/pdfs/03.04.2010.HouseTIbudget.pdf
7. Alex Frost, *Island of Hawai'i Green Economy Report*, Hawai'i County Department of Research & Development, September 2010

APPLICANT STRATEGY: Green construction job applicants in the County may apply to the contractors who were or are involved in the above construction projects, but should look more widely by doing research online and through targeted informational interviews of persons in the green construction industry.

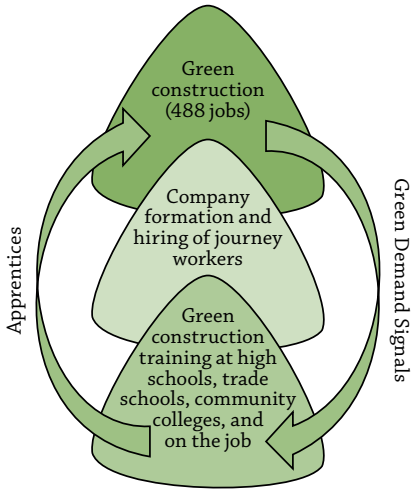


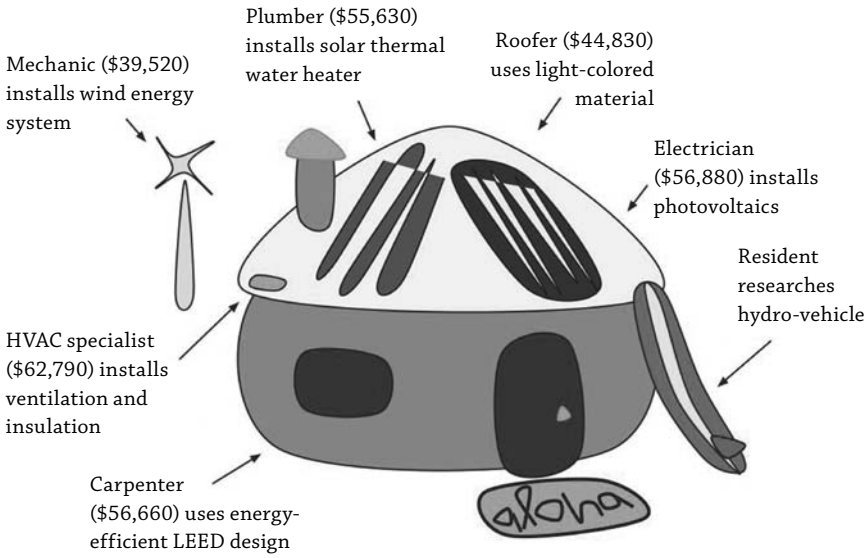
CARPENTRY: Examples of Hawai'i County companies doing green carpentry work are Bobby Inc., East Side Builders, Green Island Builders, NKM Contracting, Quality Builders, and Takamine Construction. These companies hire apprentice and journeyman carpenters to install green construction products and frame, finish, and roof in accordance with green practices. These employers generally require associate's degrees in applied sciences from a community college, and CPR and safety certifications. More than one year of green on-the-job training is also an important part of being a green construction carpenter.

ELECTRICAL: Companies in the County doing large amounts of green electrical work focus on solar photovoltaic systems. For example, 808 Electric and Telecom LLC, Dwe Inc., Helix Electric Inc., Sunetric, and SunRun hire licensed electricians and solar installers with Associate's Degrees to install photovoltaic systems.

PLUMBING: Green plumbers who focus on green technologies usually install solar thermal hot water heaters, but can also install water coolant and even solar thermal electricity systems. On the Island of Hawai'i, examples of companies that install solar thermal systems include PA Harris Electric, Drainpipe Plumbing & Solar, and Red Opae Plumbing. These companies installers and licensed

Hawai'i County Green Training and Construction Cycle





plumbers, but some larger projects, including one costing $20 million by Sopogy[8] in the Kona desert that includes 1,000 parabolic trough collectors, require the full range of employee skill-levels.

TRAINING: Green education and training on the Island of Hawai'i begins at the University of Hawai'i at Hilo, or the associated Hawai'i Community College. Electrician courses include

- interior wiring,
- blueprint reading,
- alternating current, and
- industrial electricity

These courses have green concepts, such as photovoltaics, integrated into the regular curriculum. In addition, Associated Builders and Contractors (ABC) in O'ahu offers a 32-hour course on photovoltaic design and installation. The construction carpentry courses at Hawai'i Community College include

- rough frame construction,
- concrete forms, and
- finishing

The culminating project of the construction major is the building of a model home which is later resold. For the first time in 2011, this model home will include green features such as improved insulation and ventilation.

For those interested in green architecture, extensive courses are available in AutoCAD and Construction Drawings, and LEED training is available online or in O'ahu. Several Hawai'i Community College instructors have been trained in LEED on O'ahu. Construction carpenters should also familiarize themselves with the Hawai'i Building Industry Association (BIA) BuiltGreen certification.[9]

The Plumbers and Fitters UA Local Union 675 and ABC offer extensive plumbing courses, including a 28-hour Local 675 course dedicated to solar installation.[10] When recruiting, Local 675 offers apprenticeship on the Island of Hawai'i through the Office of Continuing Education and Training (OCET).

CONTACTS

- Associated Builders and Contractors, (808) 845-4887
- Hawai'i Building Industry Association, (808) 629-7504
- Hawai'i Community College Applied Technical Education, (808) 974-7425

8. http://www.solarthermalworld.org/node/1043
9. http://biahawaii.org/displaycommon.cfm?an=1&subarticlenbr=48
10. http://plumbershawaii.com/v2n4a6.php

Hawai'i County: Green Jobs in Agriculture, Forestry, Fishing, & Hunting

INDUSTRY DEFINITION: Establishments primarily engaged in growing crops, raising animals, harvesting timber, and harvesting fish and other animals from a farm, ranch, or their natural habitats. The concept of green agriculture in our discussion will focus on descriptions outlining agriculture that is "sustainable" in a paper published by the Agricultural Research Service, U.S. Department of Agriculture.

GREEN STATISTICS: Key statistics for green agriculture, forestry, fishing, & hunting jobs in Hawai'i County are:

- 183 current jobs in Hawai'i County
- 210 additional green jobs by 2012
- The sector accounts for 15% of total current green jobs
- 8% of 2,329 total current Agriculture, Forestry, Fishing, and Hunting (AFFH) jobs in Hawai'i County are green
- There are 117 current vacancies for green AFFH jobs in Hawai'i County

GREEN AGRICULTURE = SUSTAINABILITY: Sustainable agriculture is "a way of practicing agriculture which seeks to optimize skills and technology to achieve long-term stability of the agricultural enterprise, environmental protection, and consumer safety. It is achieved through management strategies which help the producer select hybrids and varieties, soil conserving cultural practices, soil fertility programs, and pest management programs. The goal of sustainable agriculture is to minimize adverse impacts to the immediate and off-farm environments while providing a sustained level of production and profit. Sound resource conservation is an integral part of the means to achieve sustainable agriculture."[11]

Today, sustainable farming practices commonly include:

- crop rotations that mitigate weeds, disease, insect and other pest problems; provide alternative sources of soil nitrogen; reduce soil erosion; and reduce risk of water contamination by agricultural chemicals
- pest control strategies that are not harmful to natural systems, farmers, their neighbors, or consumers. This includes integrated pest management techniques that reduce the need for pesticides by practices such as scouting, use of resistant cultivars, timing of planting, and biological pest controls
- increased mechanical/biological weed control; more soil and water conservation practices; and strategic use of animal and green manures
- use of natural or synthetic inputs in a way that poses no significant hazard to man, animals, or the environment

"This approach encompasses the whole farm, relying on the expertise of farmers, interdisciplinary teams of scientists, and specialists from the public and private sectors."[12]

GREEN JOBS IN AGRICULTURE: Organic Farms: The bulk of green employment in Hawai'i County appears to come from medium size (10–49 employees) firms that grow organic produce, namely coffee and macadamia nuts. Kona Pacific Farmers Cooperative for example, is organic (green) according to their website: "In drying we employ only solar and organic fuels (macadamia nut shells) to protect the health of our consumers and safeguard the environment we share with our neighbors. In growing we avoid fumigants, fungicides, and insecticides."[13] These green farms employ crop farmworkers out in the fields, along with graders and sorters and production supervisors post-harvest. In addition, some of the farms of decent size have retail sales positions to man stores that not only sell their organic output, but also souvenirs and the like.

11. USDA Natural Resource Conservation Service (NRCS) General Manual (180-GM, Part 407)
12. Paul F. O'Connell, "Sustainable Agriculture, a Valid Alternative," Outlook on Agriculture (1992) 21(1): p.6. NAL Call # 10 Ou8
13. http://kpfc.com

Hawai'i County: Agriculture, Forestry, Fishing, & Hunting	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Farmworkers and Laborers—Crop	56	56	n/a	$24,410
Retail Salespersons	47	93	730	$27,030
Graders and Sorters—Agricultural Products	47	117	n/a	$23,780
First-Line Supervisors / Managers of Production and Operating Workers	23	117	20	$50,940
Energy Engineers	3	3	n/a	$71,250
Farm and Home Management Advisors	3	3	n/a	n/a
Executive Secretaries and Administrative Assistants	3	3	70	$42,830
Farmworkers—Farm and Ranch Animals	3	3	10	$25,430

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation

GREEN JOBS IN AGRICULTURE, OTHER: Besides organic farms, there were a few other AFFH Big Island operations where green jobs exist. Specifically, a Big Island fish farm employs workers (Farmworkers, Farm and Ranch Animals) that raises tuna from egg to fingerling size, while on the periphery, conducts R&D on clean energy for fish farming. There were other instances in agriculture firms in the survey sample on the other islands where clean energy operations existed as a byproduct of producing energy for their own firms (and in some cases, for the outlying community).

EDUCATION / TRAINING FOR GREEN JOBS IN AGRICULTURE: All of the top four listed green occupations require not much more than a high school diploma or a GED. Training for these positions is generally on-the-job and relatively short in duration.

Hawai'i County: Green Jobs in Wholesale Trade

INDUSTRY DEFINITION: Establishments engaged in wholesaling merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. The merchandise described in this sector includes the outputs of agriculture, mining, manufacturing, and certain information industries, such as publishing. Regarding individual businesses, there are specific sectors within the wholesale trade industry that can be classified as "green firms", most notably Recyclable Material Merchant Wholesalers (NAICS 423930). Also, firms that are wholesalers of mostly or all green products can be considered "green firms", whether their products for example, be produce or environmentally friendly chemical treatments. For these firms, ALL of a company's employees are classified as green, be it a truck driver hauling recyclables or the secretary in the office. In contrast, a wholesale trade firm that merely has "some" product lines that are green is not a "green firm" (in its entirety). Rather, only specific *positions* directly associated with the green product lines are designated as green jobs.

GREEN STATISTICS: Key statistics for green wholesale trade jobs in Hawai'i County are:

- 158 current jobs in Hawai'i County
- 27 additional green jobs by 2012
- The wholesale trade sector accounts for 13% of total current green jobs
- 10% of 1,570 total current wholesale trade jobs in Hawai'i County are green
- There are no current vacancies for green wholesale trade jobs in Hawai'i County

GREEN WHOLESALE TRADE COMPANIES: To begin with, the green jobs that were identified in Hawai'i Counties' wholesale trade industry via the *Hawai'i Green Jobs Survey* are by no means comprehensive. However, it should be noted that of wholesale trade worksites sampled in Hawai'i County, a 70% response rate was achieved, markedly higher than the 44% for the overall sample. In addition, all three of the large (50+ worker) worksites were sampled (food product wholesalers) and all returned their surveys (no green jobs were listed).

The green jobs listed in the chart on this page represent occupations reported by a recyclable material firm (green firm) and an industrial paper merchant business. Except for the retail salesperson, all of the green jobs listed are attributed to the recycling company. It should be noted that a firm may be classified in wholesale trade (primary), but in addition have retail activity (secondary).

In addition to the green jobs listed for Hawai'i County, there could be green positions either currently and/or in the near future on the Big Island that were sampled in other counties. In particular, wholesale/retail salesperson and purchasing agent/buyer occupations in firms dealing with a consistently expanding green product market. For example, organic produce, earth friendly building materials, and chemical agents (cleaning products, pest control agents, etc).

RECYCLABLE MATERIAL MERCHANT WHOLESALERS: All firms in this industry are considered green firms by virtue of their principal business activity based around the green practice of recycling. There are firms in this sector in each county. These businesses employ a wide spectrum of workers, from laborers and tradespersons to purchasing agents and general office staff. In Hawai'i County, outside of the entry-level position of laborer, two skilled trade jobs exist in these firms, namely operating engineers and welders.

To become an operating engineer, one must obtain certification that demonstrates proficiency in operating specific construction equipment. Thorough training for competent, skilled equipment operators requires a combination of classroom and hands-on field instruction at training centers and on-the-job work experience as an apprentice for a contractor. To apply to the Operating Engi-

Hawaii County: Wholesale Trade	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Laborers and Freight, Stock, and Material Movers—Hand	87	109	290	$29,690
Operating Engineers and Other Construction Equipment Operators	33	33	40	$59,660
Office Clerks—General	16	16	210	$28,140
Welders, Cutters, and Welder Fitters	16	16	n/a	$53,930
Retail Salespersons	5	9	730	$27,030

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation

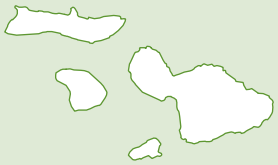
neers Local Union 3 apprenticeship program, applicants must be 18 years of age, be a resident within Local 3's jurisdiction and possess a valid driver's Hawai'i drivers license. While a high school diploma or GED is not required, it is desirable. Candidates must also be able to perform physical tasks and activities. Any prior work in construction, other trades or military service is beneficial. Operating Engineers Local Union No. 3 apprenticeship classes in Kahuku, O'ahu require 440 hours over a three-year period—well above the one-year, 144 hours of state-required training in Hawai'i. Apprenticeship classes run for nine hours Monday through Thursday and for four hours on Fridays. Due to the geography of the Hawai'i, students from the outer islands stay at a hotel adjacent to the Honolulu Airport. Kahuku Training Center instructors provide transportation to the center and back to the hotel each afternoon. Equipment operators reach journey level after working on the job as an apprentice for roughly four years under normal economic circumstances. The Kahuku Center staff includes five instructors who provide certified training in forklift operation, first aid/CPR, Occupational Safety and Health Administration (OSHA) 500/501 and Hazmat. One of the instructors is a certified examiner for the National Commission for the Certification of Crane Operators (NCCCO). In addition to apprenticeship training, the center offers ongoing journey-level-upgrade instruction to improve and hone existing skills. Operators also have the opportunity to earn certifications in hazardous materials, emergency response, disaster-site-worker certification, construction safety OSHA 500/501, first aid and CPR.[14]

For the skilled trade position of welder, instruction is available at the Hawai'i Community College. Classes are offered in the Applied Technical Education Division.[15] As a starting point, this occupation usually requires a high school diploma.[16] As with the operating engineer, any prior work in construction or related trade is beneficial.

CONTACTS:

- Hawai'i Joint Apprenticeship Center (JAC), (808) 847-5523
- Kahuku Training Center, (808) 232-2001
- Hawai'i Community College, Transportation & Applied Technology Department, (808) 974-7418
- Operating Engineers, Local Union No. 3, (808) 845-7871
- International Association of Bridge, Structural and Ornamental Iron Workers Union, Local 625, (808) 671-4344

14. http://www.oe3.org/training/apprentice.html
15. http://hawaii.hawaii.edu/ate/
16. http://torq3.torqworks.com/project/SingleOccupation.aspx?pid=3668



Maui County: Green Jobs in Construction

Likely the top green industry in Maui by job count is the construction industry. The green construction sector in Maui includes establishments engaged primarily in the construction and maintenance of green buildings, solar or wind energy systems, and green retrofitting of existing buildings with features such as improved ventilation, insulation, or photovoltaic and thermal solar power systems. Examples of green construction on Maui are a house made entirely of bamboo and powered by wind,[17] and an experimental concentrating solar power (CSP) photovoltaic system installation to power a military supercomputer at the Maui Research and Technology Park.[18] With energy prices on Maui at some of the highest levels nationwide, green building practices have proliferated.[19]

Solar photovoltaic installers and green electricians typically install photovoltaic electricity systems. An electrician's license is required to hook the photovoltaic system to the power grid. An estimated 222 of Maui County green jobs are electrician positions. In addition to a large projected increase between 2010 and 2012 of approximately 150 green electricians, there are an estimated 40 current vacancies in the solar photovoltaic and electrician fields. The large number of green electricians and solar photovoltaic installers in Maui is likely due to high energy costs in the County.

In addition to electricity, much of the green construction industry in Maui County is based on the installation of passive solar thermal equipment for the provision of hot water and cool air. Most of this is low-temperature hot water heaters for swimming pools that require plumbing expertise for installation and a plumbing license for connection to potable water sources. However, solar thermal energy can be used for cooling as well. Solar chimneys cause an updraft that pulls cool exterior air into a building, and solar mass (such as stone and concrete) absorb heat during the day and radiate heat at night. Properly installing this equipment requires specialists trained in solar thermal techniques. Solar thermal is also being used for electricity production on Maui, for example at the Maui Ocean Center, requiring highly-trained solar thermal specialists.[20]

Other green construction activities include the construction of Leadership in Energy and Environmental Design (LEED) and other energy- and material-efficient buildings, which require green specialists in heating and air-conditioning, construction carpentry, and improved insulation and venting techniques.

GREEN CONSTRUCTION PROJECTS: In order to find green construction employment opportunities in the County of Hawai'i, it will be useful to search the latest news on green construction. The Dowling Office and Kulamanu Town Center in Wailuku, and the Mākena Residential Development are LEED construction projects in Maui.[21] On a larger scale, the American Recovery and Reinvestment Act of 2009 (ARRA) invested $6 million in green construction grants to be spent in the County of Maui through 2012.

The top-5 ARRA green grants for Maui County for construction include:

- $1.9 million for Maui Electric Company (MECO) to install energy storage systems on the Moloka'i grid to support more photovoltaic power and other distributed energy systems[22]
- $1.4 million to the Maui Department of Water Supply for the replacement of the 50-thousand gallon

17. http://www.mauipropertysearch.com/Green_20_Building.html
18. http://www.solarthermalmagazine.com/2010/05/31/u-s-airforce-testing-concentrated-solar-power-system-at-maui-military-site/
19. http://esnews.org/2010/10/powering-paradise-mauis-clean-energy-environment/
20. http://www.brighterenergy.org/17245/news/solar/solar-brief/sopogy-to-provide-solar-cooling-system-for-maui-ocean-center/
21. http://www.mauipropertysearch.com/Green_20_Building.html
22. http://mauinow.com/2010/10/19/maui-electric-company-gets-1-2-million-in-stimulus-funds-for-energy-interconnection/

Maui County: Green Construction	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Electricians	222	371	80	$60,490
Heating and AC Mechanics and Installers	113	132	10	$45,650
Insulation Workers—Floor, Ceiling, and Wall	54	54	n/a	$25,800***
Construction Carpenters	27	27	130	$62,460
Solar Photovoltaic Installers	22	56	n/a	$60,350
Construction and Extraction Supervisors	15	15	50	$71,390
Electrical Engineers	14	14	20	$84,460
Tile and Marble Setters	14	14	30	$52,550
Solar Thermal Installers and Technicians	9	9	n/a	$60,350
Plumbers	7	7	70****	$46,180

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation
*** Based on Hawai'i State Average
**** Includes Plumbers, Pipefitters, and Steamfitters

West Olinda Tank with a 300-thousand gallon tank that will improve energy efficiency by requiring fewer pump starts and stops.

- $1.4 million to the Maui Department of Water Supply for the replacement of the leaking Vineyard Street Waterline
- $768,000 to the Maui Department of Water Supply for the replacement of the leaking Kīhei Road Waterline
- $555,000 for energy audits and installation of solar panels on fire stations and community centers[23]

GREEN CONSTRUCTION COMPANIES: Green construction job applicants in the County may apply to the contractors who were or are involved in the above construction projects, but should look more widely as well by doing research online and through targeted informational interviews of persons in the green construction industry and training institutes.

Companies in the County doing large amounts of green electrical work focus on solar photovoltaic systems. For example, Maui Solar Energy Systems, Maui Pacific Solar, Maui Koa Solar, Du-Watts Electric, Haleakalā Solar, and Maui Builders all hire licensed electricians and solar-photovoltaic installers with Associate's Degrees and up to 5 years of on-the-job training to install photovoltaic systems.

Solar thermal work in Maui is done by heating, air-conditioning, insulation, and plumbing experts. Examples of Maui companies that install solar thermal systems include Haleakalā Plumbing, Dorvin D. Leis Co., Sunny Solutions, and Energy Consulting Associates. These companies typically hire plumber apprentices and journeymen and provide informal on-the-job training.

23. http://www.capitol.hawaii.gov/session2010/otherreports/ESPO_County_of_Maui_Presentation.pdf

Examples of companies that do green carpentry construction or design green buildings are Green Building LLC, Maui Eco Built, Pro Draft, and Bamboo Living. These companies hire green architects, as well as apprentice and journey carpenters to complete green construction projects and frame, finish, and roof in accordance with green practices. For construction carpenters, these employers generally require associate's degrees in applied sciences from a community college, and CPR and safety certifications. More than one year of green on-the-job training is also an important part of being a green construction carpenter.

GREEN TRAINING: Green education and training in Maui County begins at the University of Hawai'i at Maui, or the associated Maui Community College. The Community College's Sustainable Construction Technology Program explicitly incorporates green principles, as well as basic construction skills, into its construction, carpentry, electrician, and plumbing certifications and associates degrees. Green instruction at the College includes, for example:

- energy efficient systems,
- renewable energy,
- passive cooling,
- off-grid systems, and
- computer-controlled energy consumption

For those interested in green architecture, drafting courses are available at the Community College, and bachelor's degrees are available at the University of Hawai'i off-island. Extensive courses are available in AutoCAD and Construction Drawings, and LEED training is available online or through the Sustainable Living Institute of Maui. Construction carpenters should also familiarize themselves with the Hawai'i Building Industry Association (BIA) BuiltGreen certification.[24]

In addition to plumbing coursework at Maui Community College, the Plumbers and Fitters UA Local Union 675 and ABC offer extensive plumbing courses in O'ahu, including a 28-hour Local 675 course dedicated to solar thermal installation.[25] When recruiting, Local 675 offers apprenticeships and training on the Island of Maui.

In addition to the formal educational sources mentioned above, several nonprofit organizations may offer educational and networking opportunities for those interested in green building, including the Maui Recycling Group. The Sustainable Living Institute of Maui offers free green construction courses in

- Building Operator Certification (BOC)
- Beginning Commercial Photovoltaic (CPV)
- Advanced Photovoltaic
- Home Energy Survey Professional (HESP)
- Introduction to Green Building Energy Management (GEM) and LEED
- Intermediate Green Building
- Small Business and Residential Photovoltaic (SBRPV)
- Sustainable small business seminars
- Waste reduction workshop for hotels and the tourism industry

24. http://biahawaii.org/displaycommon.cfm?an=1&subarticlenbr=48

25. http://plumbershawaii.com/v2n4a6.php

Maui County: Green Jobs in Administrative and Waste Services

INDUSTRY DEFINITION: One of the top two green industries in Maui is Administrative and Waste Services. The green aspects of this Administrative sector include support activities—including management, clerical, communication, security, cleaning, and waste services—for the daily operations of the entire economy. Some green administrative jobs will be found in companies that specialize in green products, for example secretarial work in a wind power company. Other jobs are likely green by nature—for example environmental science and protection technologists and sustainability specialists and recyclers. Sustainability specialists address organizational issues related to sustainability, including the management of waste streams, implementation of green building principals, and green procurement.[26]

GREEN STATISTICS: Key statistics for green administrative jobs in Maui are:

- 1,219 current jobs in Maui
- 437 additional green jobs by 2012
- The administrative sector accounts for 47% of total current green jobs
- 28% of 4,411 total current administrative jobs in Maui are green
- Fewer than ten current green vacancies in Administrative services

Maui green employment include an estimated 1,088 janitors and cleaners (non-maids/housekeeping), 112 green landscapers, 121 salespersons (representatives and retail), and relatively large additional occupations including pest control, recycling, divers, environmental science and protection technologists, landscaping managers, and ship and boat captains.

While most occupations listed in the table have fewer than five estimated vacancies in Maui, several are projected to experience significant growth by 2012, including cleaners, landscapers, sales, pest control, and environmental science and protection technologists.

GREEN CLEANING AND HAZMAT: Green janitorial and cleaning services in Maui are quite significant, with some very large cleaning companies using almost entirely green products and marketing themselves as such. Green cleaners have titles such as Window Cleaner, Janitor, Houseman, General Laborer, and Utility Cleaner. They are primarily distinguished from their non-green counterparts by a near-exclusive use of green or organic cleaning products, including low and non-VOC products for industrial cleaning tasks.

Examples of green cleaning and janitorial companies in Maui are People Who Clean, Green Earth Cleaners (dry cleaning and sales of green cleaning products), Green Clean Window Cleaning Services, HMS Coatings (waterless concrete, tile and grout cleaning, solar panel cleaning, non-VOC industrial cleaning), Aloha Clean Pro Supply, and Dan Brown's Condo Care. Janitorial and cleaner training is primarily on-the-job.

Environmental Science and Protection Technicians specialize in cleaning hazardous materials, for example petroleum or hazardous material spills in the marine environment. This is a highly-skilled profession requiring extensive on-the-job training and certifications, including in the areas of health, safety, and even helicopter pilot training. Examples of employers of environmental technicians in Maui include American Marine Corporation and Kagami Inc.

GREEN LANDSCAPING: Green landscaping in Maui includes job titles such as designer, architect, horticulturalist, irrigation laborer, landscape contractor, farmer, gardener, arborist, tree trimmer, golf greens mower, sod farmer, agricultural field technician, nursery operator, and natural resource field technician. Green landscapers require on-the-job training (OJT) to install:

26. DLIR Green Jobs Report, 2010, p. 28

Maui County: Administration and Waste Management	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Janitors/Cleaners, except Maids/Housekeeping	1,088	1,128	270	$27,810
Landscaping and Groundskeeping Workers	79	112	120	$32,290
Sales Representative Services—All Other	74	90	80	$61,900
Retail Salespersons	47	49	730	$29,150
Pest Control Workers	36	45	n/a	$28,610
Recycling and Reclamation Workers	28	28	n/a	$23,200
Commercial Divers	8	8	<10	$37,770
Environmental Science and Protection Technicians, including Health	7	13	10	$41,550
Landscaping Managers	6	6	20	$51,470
Ship and Boat Captains	4	4	n/a	$49,730

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation

- draught-tolerant plants,
- recycle cuttings for compost, and
- install smart irrigation systems that automatically respond to changing weather conditions and provide drip flows measured precisely for terrain and plant varieties.

Green landscaping professionals are hired by, or teamed with, Maui companies such as: Green Perspectives, Island Plant Company, Biological Applications, Kapalua Land Company, National Tropical Botanical Gardens, Maui Nui Botanical Gardens (MNBG), Eko Systems, the Ritz Carlton Hotel, Maui Electric Company, 3900 WA Associates, and TH Inc.

The Maui Association of Landscape Professionals (MALP), affiliated with the Maui County Farm Bureau, the city/county/state governments, Landscape Industry Council of Hawai'i, and the Cooperative Extension Service/University of Hawai'i (CTAHR) includes as one of its key goals the increase of water efficiency and promotes green events and the use of ecologically-beneficial compost technologies. While the Certified Landscape Technician (CLT) test is not available on Maui, MALP offers travel and fees assistance to members.

Other green landscaper organizations in Maui include Maui County Arborist Committee, Maui Master Gardener Program, Maui Outdoor Circle, the Agriculture Department of Maui Community College, Maui Garden Club, and Maui Coffee Association Vendors.

Landscape professional education can be achieved at the high-school, college, university, and professional certification levels. The Lahainaluna High School Agricultural Department is affiliated with MALP, and offers several environmental and agricultural scholarships.

The Maui Community College offers an A.A.S. in Horticulture and Landscape Maintenance, and includes

in its mission statement an emphasis on sustainability. In addition to Maui facilities, the College is in control, along with HU CTAHR, of an agricultural facility in Moloka'i that includes education in landscaping. The sustainable emphasis of the program is built in to certificates for turfgrass specialist, nursery management, floriculture management, horticulture and landscape management, and sustainable tropical crop management.

RECYCLING AND RECLAMATION: Maui prides itself on its environmentalism boasts one of the best worksite recycling records of all four counties in Hawai'i, and diverts approximately 34% of its waste from landfills. However, there is much room for improvement. According to the US Environmental Protection Agency, Maui creates an average of 14.3 lbs of waste per day, compared with the national average of 4.6 lbs per day.[27]

The center of recycling work on Maui is the County Recycling Service. Their residential programs are available on each island (Maui, Lāna'i, and Moloka'i) and are specialized for appliances, batteries, electronics, green waste, composting, hazardous waste, solid waste, motor oil, plastics, glass, HI5, and used cooking oil. In addition to these offices and job listings on the county website, information on recycling and waste management jobs may be available at several key recycling facilities.

Landfills are located on each island, and some are specialized. Maui has a privately-operated construction and demolition landfill in Mā'alea, as well as an Electronics Recycling Program. Moloka'i has a metals facility in Maunaloa.

Several private companies recycle in Maui, including Maui Disposal, Aloha Glass Recycling, Maui Tire Recycling, Interstate Battery System, SOS Metals Island Recycling, Maui Waste Services, Pallet Products, Ka Lima O Maui, Unitek Solvent Services, Paper Pottery, Currents, Pacific Biodiesel, Maui Eko Systems, Maui Disposal, Maui Earth Composting Company, Maui Recycling Service, Campaign Recycle Maui, Aloha Plastics Recycling, Metamorphosis, Tin Can Man, Joy of Worms, Maui Earthkeepers Earthworm Farms, and Reynolds Recycling. These companies recycle everything from vegetable oil to solvents and computers.

A good place to start waste management training is Maui Community College (a 2-year degree) or the University of Hawai'i in Mānoa (a 4-year degree). Courses in business, engineering, marine biology, and environmental science will apply. Advice, volunteer opportunities, and career counseling is available through several non-profit organizations that specialize in recycling, including Remade on Maui, Maui Recycling Group, Sharing Aloha, Community Work Day, Habitat for Humanity, and the Aloha Shares Network.

Certifications available to recycling professionals include those for

- Certified Refrigerant Compliance Managers,
- Hazardous Waste Management, and
- Hazardous or Dangerous Materials Transport

This training can be obtained from national organizations such as the Aarcher Institute and the Environmental Resource Center.

SUSTAINABILITY SPECIALISTS: In Maui and elsewhere in the State, the profession of *Sustainability Specialist* is a new and emerging occupation. Sustainability specialists, which market themselves under various names, address organizational issues related to sustainability, including the management of waste streams, implementation of green building principals, and green supply chains. In Maui, sustainability specialists include green electrical, plumbing, architectural, and other green construction, energy, agricultural, oceanographic, and sustainability consultants. Agricultural sustainability consultants who assist farmers with conservation plans are coded as Forest and Conservation Technicians.

Makena Group, West Maui Soil and Water, Maui Green Team, Surfrider Foundation, Maui EcoBroker, Clean and Green Jobs, Willy Bennett and Robert Hobdy, are examples of experts, companies and organizations that

27. http://www.mauiweekly.com/page/content.detail/id/502123/Maui-s-Recycling-Programs-Update.html?nav=13

provide or are hiring sustainability consulting in Maui. National green hiring websites that specialize in job listings for sustainability consultants include SustainableBusiness.com, GreenBiz.com, and Grist.com. A more comprehensive list of sustainability job listings is available at ellenweinreb.com.[28]

Training to be a sustainability consultant is available at Maui Community College, four-year universities such as University of Hawai'i at Mānoa, and through diverse educational and research sources. The Green Business League offers certification as a Green Consultant, however, being a sustainability "specialist" means that you have become an expert in sustainability. Sustainability is such a broad term that most experts will start somewhere specific, such as with a certification as an electrician, carpenter, architect, agriculturalist, oceanographer, economist, policy analyst, or diverse other educational backgrounds. The first step to becoming a sustainability specialist is therefore to decide in which type of sustainability one wants to specialize. The next step is to pursue licenses and education in this field, and market oneself among those government, business, and non-profit entities seeking sustainability specialists.

GREEN HOTELS: Hotels in Maui frequently market themselves as environmentally friendly, and will require services such as energy, construction, consulting, cleaning or landscaping that itself is marketed as green. Examples of green hotels in Maui include the Fairmont Kea Lani, Bamboo Inn, and the Hotel Hāna-Maui. Other hotels may be convinced to go green by enterprising green cleaners, landscapers or sustainability specialists who wish to increase demand for their services. If the marketing and other economic benefits can be impressed upon them, non-green hotels can be convinced to go green by, in part, hiring green landscapers, cleaners, and consultants. Several organizations list or certify green hotels, including the Green Hotels Association, EcoGreen Hotel, Green Globe, and the Tourism Sustainability Council, which provide green guidelines and certify particular hotels as green.

28. Professional Sustainability Hiring Consultant, Ellen Weinreb, ellenweinreb.com

CONTACTS

- Sustainable Living Institute of Maui, (808) 984-3379
- Maui County Recycling, (808) 270-7874
- Maui Association of Landscape Professionals (MALP), www.malp.org

Maui County: Green Jobs in Manufacturing

INDUSTRY DEFINITION: The Manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is appropriately classified in Construction. In regard to green manufacturing, firms generally start going green with their products by looking at each one of them individually and deciding how they can redesign them. Green manufacturers also find ways to build their products with natural and/or recycled materials and look for machines that produce less waste.

GREEN STATISTICS: Key statistics for green manufacturing jobs in Maui are:

- 106 current jobs in Maui
- 5 additional green jobs by 2012
- The manufacturing sector accounts for 4% of total current green jobs
- 11% of 1,070 total current manufacturing jobs in Maui are green
- Fewer than ten current green vacancies in manufacturing

COMPOST PRODUCTION: Maui, like the rest of the Hawaiian Island chain, has a year-round growing season. The result is a massive stream of green waste from nonstop cutting, trimming and pruning. Maui's EKO Systems has been taking green waste, to the tune of 35,000 tons a year, and turning it into high quality compost products.[29] These products are shipped throughout Hawai'i. Because the focus of EKO Systems activities are green, this firm, and subsequently all its employees (from production workers to secretaries), are classified as green. From the survey sample, the #1 green manufacturing occupation, Production Workers (All Other) was identified in this sector of manufacturing. On-the-job training is the standard for most positions in this field. However, some jobs require certification to operate specific vehicles and/or equipment.

POWER GENERATION: Though sugar cane cultivation, harvesting, and processing have steadily diminished in Hawai'i over the years, there is still one sugar operation on Maui. Besides supplying the electricity for all of its own operating needs, Hawaiian Commercial & Sugar, via its biomass energy plants, produces about 7% of the electricity consumed by the rest of the island of Maui. This 7% represents about 35% of the island's renewable energy supply, which HC&S generates primarily through the burning of bagasse (the remains of the sugar cane plant, after the sugar has been extracted). In April 2010, HC&S announced that it is at the center of significant new Hawai'i-based research initiatives on biofuels, working closely with the University of Hawai'i and various federal agencies to realize the promise of expanded production of clean, renewable energy.[30]

As far as green jobs, high paying position of Power Plant Operator ranks among the leading green occupations in manufacturing, albeit sugar manufacturing, on Maui. Power plant operators generally need a combination of education, on-the-job training, and experience. Candidates with strong mechanical, technical and computer skills are generally preferred. Electric company recruiters generally look for individuals with strong math and science backgrounds for these highly technical jobs. Understanding electricity and math—especially algebra and trigonometry—are important, although workers learn many of these concepts and skills in specialized training courses. Workers should also be good at working with tools. Problem solving is an important part of most electrical workers' jobs, so recruiters usually look for people who can easily figure out how things work. Successful utility workers are generally good with mechanics and enjoy fixing things.

29. http://www.jgpress.com/archives/_free/001725.html

30. http://www.alexanderbaldwin.com/news/press-releases/press-release?id=1411255

Maui County: Manufacturing	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Production Workers—All Other	25	25	10	$23,200
Power Plant Operators	14	16	10	$71,940
Biomass Production Managers	10	10	n/a	$77,030
Printing Machine Operators	9	9	10	$37,130
Landscaping and Groundskeeping Workers	8	8	120	$32,290
Maintenance and Repair Workers—General	6	6	110	$41,440
First-Line Supervisors / Managers of Production and Operating Workers	5	5	20	$50,640
Secretaries, except Legal, Medical, and Executive	4	4	110	$32,490
Millwrights	4	5	n/a	NA
Industrial Machinery Mechanics	3	3	10	$45,070
Prepress Technicians and Workers	3	1	<10	$50,240
General and Operations Managers	2	2	300	$81,200
Environmental Science and Protection Technicians, including Health	2	2	10	$41,550
Sheet Metal Workers	2	2	20	$55,130***
Mobile Heavy Equipment Mechanics, except Engines	2	2	10	$56,030

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation
*** Based on Hawai'i State Average

In order to measure these aptitudes, many companies require that their workers take the Power Plant Maintenance (MASS) and Plant Operator (POSS) exams administered by the Edison Electrical Institute. These tests measure reading comprehension, understanding of mechanical concepts, spatial ability, and mathematical ability. After finishing work in the classroom, most entry-level workers start as helpers or laborers and advance to more responsible positions as they become comfortable in the plant. Workers are generally classified into 3–5 levels based on experience. For each level, there are training requirements, mandatory waiting times, and exams. With sufficient training and experience, workers can become shift supervisors, trainers, or consultants.[31]

31. http://www.bls.gov/oco/ocos227.htm

COMMERCIAL LITHOGRAPHIC PRINTING: Among industries' efforts to become greener, the printing sector as a whole has made great strides. It appears increasingly commonplace that printing firms use recycled paper, chemical-free plates, and eco-friendly inks in production. On Maui (and statewide), there were several firms in the survey sample that indicated they incorporated green production inputs and methods. As a result, among the top green manufacturing jobs on Maui was the skilled trade of printing machine operator.

Although employers prefer that beginners complete a formal apprenticeship or a postsecondary program in printing equipment operation, many press operators are trained on the job. Attention to detail and familiarity with electronics and computers are essential for operators. Beginning press operators load, unload, and clean presses. With time and training, they may become fully qualified to operate that type of press. Operators can gain experience on more than one kind of printing press during the course of their career. Experienced operators will periodically receive retraining and skill updating. For example, printing plants that change from sheet-fed offset presses to digital presses have to retrain the entire press crew because skill requirements for the two types of presses are different. Apprenticeships for press operators, once the dominant method for preparing for this occupation, are becoming less prevalent. When they are offered by the employer, they include on-the-job instruction and related classroom training or correspondence school courses.[32]

32. http://www.bls.gov/oco/ocos231.htm



Kaua'i County: Green Jobs in Construction

INDUSTRY DEFINITION: One of the top three green industries in Kaua'i is the construction industry. The green construction sector in Kaua'i includes establishments engaged primarily in the construction and maintenance of green buildings, solar or wind energy systems, erosion control, and green retrofitting of existing buildings with features such as improved ventilation, insulation, or photovoltaic and thermal solar power systems. A recent example of green construction on Kaua'i is a 1.2-megawatt solar farm near Kapa'a that was constructed by REC Solar Hawai'i. REC Solar Hawai'i designed and built the system with 5,376 photovoltaic panels on about five acres of nonproductive agricultural land. The solar farm is owned by Kapa'a Solar LLC, which will sell the power to the Kaua'i Island Utility Cooperative.[33] With energy prices on Kaua'i at some of the highest levels nationwide, green building practices have proliferated.

INDUSTRY STATISTICS: Green construction activities include the construction of Leadership in Energy and Environmental Design (LEED) and other energy- and material-efficient buildings, which require an estimated 12 green specialists in construction carpentry on Kaua'i, and additional specialists in masonry, heating, air-conditioning, insulation and venting.

Green electricians are also in demand in Kaua'i, and typically install photovoltaic electricity systems. An estimated 14 of Kaua'i County green jobs are electrician or solar energy installation positions. There is a projected increase between 2010 and 2012 of approximately three green electricians.

In addition to electricity, much of the green construction industry in Kaua'i County is based on the installation of solar thermal equipment for the provision of hot water and cool air. Much of this is low-temperature hot water heaters for swimming pools that require plumbing expertise for installation, but solar thermal energy can be used for cooling as well. Solar chimneys facilitate an updraft that pulls cool exterior air into a building, and solar mass (such as stone and concrete) absorb heat during the day and radiate it at night. Properly installing this equipment requires specialists who are trained in solar thermal techniques.

GREEN CONSTRUCTION PROJECTS: In order to find green construction employment opportunities in the County of Kaua'i, it will be useful to search the latest news on green construction. Grove Farm is developing a LEED project called Wailani (Heavenly Water) development that is projected to create 300 to 500 construction jobs over five to seven years starting in late 2011. It is mixed residential and commercial space that includes many LEED design elements of energy savings, water efficiency through a dual potable/non-potable water system, carbon dioxide emissions reduction, indoor environmental quality and stewardship of resources. If the development successfully achieves the LEED designation, it would be the first mixed development to do so in the state. One of the infrastructure improvements coming with the project will be increasing the volume of water from the Waiohi water treatment plant to 5 million gallons a day from its current 3 million. Grove Farm has won a GE "ecomagination" award for the green water treatment project at the Waiohi Water Treatment Plant, for its incorporation of eco-friendly features.[34] The Kaua'i Hyatt has also received a Green Business Award, and will likely provide construction or maintenance opportunities in the future. An Advanced Radar Detection Laboratory facility at the U.S. Navy Pacific Missile Range Facility, the Botanical Research Center at the National Tropical Botanical Gardens, and the Kaua'i Community Federal Credit Union's Kukui Grove West office are LEED buildings. On a larger scale, the American Recovery and Reinvestment

33. http://www.staradvertiser.com/business/20110212_new_kauai_solar_farm_could_power_300_homes.html

34. http://the.honoluluadvertiser.com/article/2010/Mar/27/ln/hawaii100327003.html, http://thegardenisland.com/business/local/article_4304fdca-3a2a-11df-9017-001cc4c002e0.html

Kaua'i County: Green Construction	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Construction Carpenters	12	12	130	$63,720
Electricians	10	13	80	$55,510
Solar Thermal Installers and Technicians	6	6	n/a	$47,170***
Environmental Engineers	5	5	10	$87,580***
Mechanical Engineers	4	4	10	$75,650
Solar Energy Installation Managers	4	4	n/a	$65,360
Sustainability Specialists	4	8	n/a	$59,670
Plumbers	4	6	70****	$43,490
Brickmasons and Blockmasons	2	2	10	$62,340
Supervisors of Construction and Extraction	2	2	50	$65,360

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation
*** Based on Hawai'i State Average
**** Includes Plumbers, Pipefitters, and Steamfitters

Act of 2009 (ARRA), invested $5 million in grants to be spent in the County of Kaua'i through 2012. The top unexpended ARRA green funds for Kaua'i County for construction as of January 2011 include:

- $4.2 million for a Lydgate-Kapa'a Bike Path, and
- $267,900 Conservation Block Grant for a Photovoltaic Power System for Keālia Fire Station

GREEN CONSTRUCTION COMPANIES: Green construction job applicants in the County may apply to the contractors who were or are involved in the above construction projects, but should look more widely as well by doing research online and through targeted informational interviews of persons in the green construction, government and non-profit sectors.

Examples of companies that do green building, carpentry construction and design in Kaua'i are Unlimited Construction (which is headquartered on Kaua'i, won a green award in 2008, and is one of the State's top-10 largest construction companies in 2008 in terms of revenue),[35] Prieto Construction (which specializes in erosion control), and M. Ceria Construction. These companies may hire or know of companies that hire green architects, project managers, engineers, and apprentice and journey carpenters to design and complete green construction projects and frame, finish, and roof in accordance with green practices. For construction carpenters, green employers generally require associate's degrees in applied sciences from a community college, and CPR and safety certifications. More than one year of green on-the-job training is also an important part of being a green construction carpenter.

Green architecture, energy engineering, and consulting companies in Kaua'i include the Certified Inspection Agency and Hawai'i BioEnergy (HBE). The latter was

35. http://www.unlimitedhawaii.com/media%20awards.html

started by Grove Farm, Kamehameha Schools, and Maui Land & Pineapple to explore the feasibility of growing algae for fuel and operating integrated bio-refinery plants in the Hawaiian Islands. The company may yield construction jobs with a proposed 100-200 acre algae energy facility.[36]

Companies in the County doing green electrical or consulting work focus on solar photovoltaic systems. For example, Kaua'i Island Utility Cooperative, DA Solar Hawai'i, Solar Plus, Virtual Power Plant, Eco Paradise Energy, Hawaiian Electric Industries, Electra Tech Service, REC Solar, Solar Engineering and Contract, Solar Energy Solutions, R Electric, Sun King, and Pacific Light and Power will hire or know of companies that hire licensed electricians with associate's degrees and up to five years of on-the-job training to install photovoltaic and other systems. Wilcox Memorial Hospital has an extensive photovoltaic array on its property that likely requires some ongoing maintenance.

Solar thermal work in Kaua'i is done primarily by heating, air-conditioning, insulation, masonry, and plumbing experts. Examples of Kaua'i companies that install solar thermal systems include DA Solar Hawai'i, Readyman Service, Joe Pattillo Plumbing, and Sun King. These companies typically hire plumber apprentices and journeymen and provide informal on-the-job solar thermal training.

KAUA'I COMMUNITY COLLEGE TRAINING: Green education and training for Kaua'i County begin at the University of Hawai'i on O'ahu or the Big Island, or the associated Kaua'i Community College.

The Community College's Trade Technology and Facility Engineering Programs incorporate green principles, as well as basic construction skills, into its construction, carpentry, electrician, and plumbing certifications and associate's degrees. Green instruction at the College includes, for example:

- energy efficient systems,
- renewable energy,
- sustainability,
- Water-efficient PEX piping for plumbers,
- Voltage drops, circuitry design, and increased wire gauge for improved electrical efficiency,
- Improved carpentry standards and a two-year sustainable carpentry degree for longer-lasting buildings,
- Recycling and zero waste.[37]

Kaua'i Community College is particularly well-appointed in the green electrical field. The Program Director for the Community College's Trade Technology and Facility Engineering Programs is a green-certified electrician who is also Program Coordinator for the statewide Construction Technology Program for high schools (credits for which are transferable tuition-free to college). North American Board of Certified Energy Practitioners (NABCEP) has approved Kaua'i Community College's Basic Photovoltaic class.

Kaua'i Community College plans to transfer students to Maui Community College's Energy Efficiency Program that spans electrical, plumbing, and carpentry. The transfer program is planned for both in-residence and distance learners.

A solar photovoltaic system at the College sits on top of the One Stop Center and supplies 6.2% of the college's electrical power.[38]

OFF-ISLAND TRAINING: For those interested in green architecture, drafting courses and bachelor's degrees are available off-island. Extensive courses are available in AutoCAD and Construction Drawings, and LEED training is available online. The Hawai'i Building Industry Association (BIA) BuiltGreen certification is also useful in understanding green approaches to construction carpentry.[39]

36. http://www.grovefarm.com/renewable-energy

37. http://kauaian.net/blog/?p=1486; telephone conversation with Bob Conti, Program Director for construction prog (KCC)
38. http://the.honoluluadvertiser.com/article/2010/Mar/23/br/hawaii100322036.html
39. http://biahawaii.org/displaycommon.cfm?an=1&subarticlenbr=48

In addition to plumbing coursework at Kaua'i Community College, the Plumbers and Fitters UA Local Union 675 and ABC offer extensive plumbing courses in Oahu, including a 28-hour Local 675 course dedicated to solar thermal installation.[40] When recruiting, Local 675 offers apprenticeships and training on the Island of Kaua'i.

NON-PROFIT AND GOVERNMENT TRAINING: Several nonprofit and government organizations may offer additional educational or networking opportunities for those interested in green building, including Zero Waste Kaua'i, Rotary Club of Kapa'a (which offers Green Business Initiative Awards), Kaua'i Recycling Office, Apollo Kaua'i, WorkWise Kaua'i, and for electricians interested in seabird-friendly outdoor lighting, the Kaua'i Seabird HCP Office. The Kaua'i Island Utility Cooperative offers training for employees in the following green topics: Certified Energy Manager, Carbon Reduction Manager, Distributed Generation, and LEED.[41]

40. http://plumbershawaii.com/v2n4a6.php
41. http://hawaii.gov/labor/wdc/SESP%20Grant_Public%20Copy.pdf

Kaua‘i County: Green Jobs in Administrative and Waste Services

INDUSTRY DEFINITION: One of the top three green industries in Kaua‘i is Administrative and Waste Services. The green aspects of this Administrative sector include support activities—including management, clerical, communication, security, cleaning, and waste services—for the daily operations of the entire economy. Some green administrative jobs will be found in companies that specialize in green products, for example a secretary in a wind power company. Other jobs are green by nature—for example sustainability specialists and recyclers. Sustainability specialists address organizational issues related to sustainability, including the management of waste streams, implementation of green building principals, and green procurement.[42]

GREEN STATISTICS: Green administrative activities include landscaping, recycling, sustainability, advising, and regular administrative activities for green companies. Key statistics for green administrative jobs in Kaua‘i are:

- 161 current jobs in Kaua‘i
- 189 projected jobs in 2012
- Administrative accounts for 35% of total current green jobs
- Administrative accounts for 9% of 1,843 total current jobs
- Fewer than ten current green vacancies in Administrative

Kaua‘i green activities require an estimated 106 green specialists in landscaping, 45 recycling workers, and additional green clerks and secretaries serving green businesses. Kaua‘i also affords green opportunities for professional sustainability specialists, public relations specialists, managers, and others.

While most occupations listed in the table have only one or two vacancies in Kaua‘i and are projected to remain at approximately the same level between 2010 and 2012, recycling workers are likely to grow substantially between 2010 and 2012, and have more current vacancies than other occupations. Sustainability specialists and green retail salespersons are also likely to see an increase between 2010 and 2012.

GREEN LANDSCAPING: Green landscaping on Kaua‘i includes job titles such as irrigation laborer, landscape contractor, gardeners, and greens mowers. Green landscapers require on-the-job training (OJT) to install

- draught-tolerant plants,
- recycle cuttings for compost, and
- install smart irrigation systems that automatically shut off after a rain and provide drip flows measured precisely for terrain and plant varieties

Green landscapers are hired by Kaua‘i companies such as the National Tropical Botanical Gardens (NTBG), Kaua‘i Nursery, RYLO Excavation & Landscaping (winners of the Rotary Club of Kapa‘a 2010 Kaua‘i Green Innovation Award), Na Ka Oi landscaping, and several golf courses.

The Kaua‘i Landscape Industry Council, affiliated with the Landscape Industry Council of Hawai‘i, provides on-island training through Kaua‘i Community College and the University of Hawai‘i in Mānoa. Over a dozen classes, including green topics such as native species, state and federal pesticide regulations, water conservation, fertilizer and water application rates, irrigation repair, soil improvement, grading, and ground cover, prepare the student for certification tests leading to a Certified Landscape Technician (CLT) qualification in either Ornamental Maintenance, Turf Maintenance, Softscape Installation, or Irrigation. These sessions are held yearly in Kaua‘i and more frequently on O‘ahu. In addition, the Aloha Arborists offer self-study programs for the National Arborist Certification Exam.[43]

42. DLIR Green Jobs Report, 2010, p. 28

43. http://lichawaii.com/training.asp

Kaua'i County: Administration and Waste Management	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Landscaping and Groundskeeping Workers	106	106	120	$29,910
Recycling and Reclamation Workers	45	73	n/a	$33,820
Counter and Rental Clerks	10	11	50	$23,600
Executive Secretaries and Administrative Assistants	6	8	70	$42,780
Sustainability Specialists	4	8	n/a	$59,670
Retail Salespersons	4	7	730	$26,800
Public Relations Specialists	3	3	40	$48,980
Secretaries, except Legal, Medical, and Executive	2	2	110	$35,170
General and Operations Managers	2	2	300	$78,480
Treasurers and Controllers	2	2	n/a	$75,730

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation

RECYCLING AND RECLAMATION: The center of recycling work on Kaua'i is the Kaua'i County Recycling Office. At the office, there are specialists in:

- residential recycling,
- recycling education,
- waste diversion opportunities, and
- technical assistance

Their programs are specialized for appliances, batteries, electronics, green waste, composting, hazardous waste, solid waste, motor oil, plastics, glass, and used cooking oil. In addition to this office, recycling and waste management jobs may be available at several key recycling facilities.

The Kaua'i Resource Center near the airport in Līhu'e includes an HI-5 deposit redemption center, and accepts most kinds of non-hazardous recyclable waste. It also includes a Recycled Glass Manufacturing Shop.

The Puhi Metals Recycling Center is a county facility in Līhu'e operated by Abe's Auto Recycler. The facility mission is to recycle motor vehicles, appliances, scrap metal, and propane tanks. Other private recycling companies in Kaua'i include Reynold's Recycling, Garden Isle Disposal, L&T's Alternatives, Kaua'i Community Recycling Service, e-Recycling Kaua'i, and Unitek Solvent Services. These companies recycle everything from vegetable oil to computers.

Certifications available to recycling professionals include those for

- Certified Refrigerant Compliance Managers,
- Hazardous Waste Management, and
- Hazardous or Dangerous Materials Transport

This training can be obtained from national organizations such as the Aarcher Institute and the Environmental Resource Center.

A good place to start waste management training on-island is the Kaua'i Community College and the county's Kaua'i Recycling Resource Center, which offers an excellent public reference library on waste diversion. Fifty videos can be borrowed or watched on-site, and cover topics such as composting, waste prevention for businesses, reuse, and manufacturing of recycled products. The library includes current and back-issues of key recycling periodicals, such as Waste Age, Waste News, Resource Recycling, and BioCycle.

SUSTAINABILITY SPECIALISTS: In Kaua'i and elsewhere in the State, the profession of *Sustainability Specialist* is a new and emerging occupation. As mentioned previously, sustainability specialists address organizational issues related to sustainability, including the management of waste streams, implementation of green building principals, and green procurement. In Kaua'i, sustainability specialists include green electrical, plumbing, architectural, and other green construction, agricultural, oceanographic, and sustainability consultants.

The consultant John Letman, Readyman Services in Kaua'i, which specializes in green plumbing consultancy, Oikonos EcoSystem Knowledge, and on a larger scale the Center for Smart Building and Community Design (affiliated with the University of Hawai'i School of Ocean Earth Science and Technology in Honolulu) are examples of experts, companies and organizations that provide or are hiring sustainability consulting in Kaua'i. Green hiring websites that specialize in job listings for sustainability consultants include SustainableBusiness.com, GreenBiz.com, and Grist.com. A more comprehensive list of sustainability job listings is available at ellenweinreb.com.[44]

Training to be a sustainability consultant is available at the Kaua'i Community College, four-year universities such as University of Hawai'i at Mānoa, and through diverse educational and research sources. Being a sustainability "specialist" means that you have become an expert in sustainability. However, sustainability is such a broad term that most experts will start somewhere specific, such as with a certification as an electrician, carpenter, architect, agriculturalist, oceanographer, economist, policy analyst, or diverse other employments. The first step to becoming a sustainability specialist is therefore to decide in which type of sustainability one wants to specialize. The next step is to pursue licenses and education in this field, and market oneself among those government, business, and non-profit entities seeking sustainability specialists.

CONTACTS

- Kaua'i Landscape Industry Council, (808) 246-0091
- Kaua'i County Recycling, (808) 241-4837
- For sustainability specialist news and job board, visit www.grist.org

44. Professional Sustainability Hiring Consultant, Ellen Weinreb, ellenweinreb.com

Kaua‘i County: Green Jobs in Art, Entertainment and Recreation

INDUSTRY DEFINITION: One of the top two green industries in Kaua‘i is the Arts, Entertainment and Recreation sector, which includes services that meet cultural, entertainment, and recreational interests of patrons. Going green in the arts sector in Kaua‘i will require ingenuity, a large measure of personal initiative, and good business sense. The sector is small enough in the county that the work will be defined by the unique vision that the individual (entrepreneur most likely) brings to the job.

GREEN STATISTICS: Key statistics for green arts, entertainment, and recreation jobs in Kaua‘i are:

- 87 current jobs
- 19% of total green jobs
- 9% of total county jobs
- 2 vacancies
- 88 projected jobs for 2012

GREEN JOBS IN ARTS, ENTERTAINMENT & RECREATION: The greatest number of green jobs directly related to the Art, Entertainment, and Recreation sector are in the extensive entertainment industry centered around the natural resources—botanical, nature preserve, golf, land company and other—of Kaua‘i. These jobs, including an estimated 78 landscaping and gardener jobs tied to the Arts sector in 2010, have been dealt with elsewhere (in a similar information paper on the administrative sector in Kaua‘i). For analysis of these jobs, which account for most of the arts-tied green jobs in Kaua‘i, please refer to that paper. Statewide, the survey indicated green jobs exist in the industry on O‘ahu and Maui, with the occupational composition quite similar to that of Kaua‘i. In particular, landscaping and groundskeeping workers were the most cited on these islands as well.

As government continually ramps up mandates on conservation efforts, forest and conservation technicians and workers will be in demand throughout the State. Forest and Conservation Technicians provide assistance of a technical variety regarding conservation of water, soil, forests, and other natural resources. This includes conservationists who treat areas adjacent to marine habitat, as well as ecological restorationists such as invasive species eradicators. Most conservation employment opportunities are through government agencies and non-profit organizations, and the private contractors (for example Ka‘ala Farm) that they hire.

Meaningful coursework and applied experience is available at Kaua‘i Community College, via the Hawaiian Botany Certificate of Competence (7 credits) and the Marine Option Program (Certificate, 13 credits).[45] With the Marine Option Program, students work with marine

45. http://info.kauai.hawaii.edu/program_desc/

Kaua‘i County: Arts, Entertainment, & Recreation	# of Green Jobs		Avg. Annual Openings* Due to Replacement	Average Salary**
	2010	2012		
Landscaping and Groundskeeping Workers	78	78	120	$29,910
Forest and Conservation Technicians	3	4	10	$39,270
Receptionists and Information Clerks	3	3	110	$32,490
Maintenance and Repair Workers—General	2	2	110	$37,220

* Reflects statewide data for all jobs (green and non-green) in listed occupation
** Reflects county-level data for all jobs (green and non-green) in listed occupation

scientists in many different areas of interest applying their academic knowledge to the real world while learning practical marine and lab skills. The MOP Certificate can then be used when applying for marine related jobs or for further study at a four-year institution.

Extensive volunteer opportunities are available in the area of conservation. Given that the State is an island habitat, some marine conservation programs are included here. Volunteer conservation opportunities include the National Tropical Botanical Garden, the Kaua'i Monk Seal Conservation Hui, the Kōke'e Resource Conservation Program, and KUPU Hawai'i (Hawai'i Youth Conservation Corps).

CONTACTS

- Kaua'i Community College, (808) 245-8311
- KUPU Hawai'i (Hawai'i Youth Conservation Corps), (808) 735-1221
- National Tropical Botanical Garden, (808) 332-7324, ext. 228
- Kaua'i Monk Seal Conservation Hui, (808) 651-7668
- Kōke'e Resource Conservation Program, (808) 335-9975

Hawai‘i Directory of Green Businesses

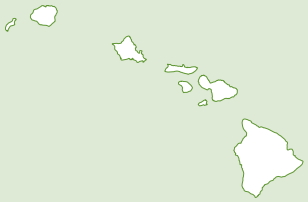
Notice of Limitations

The first section of this directory is based on a green jobs survey completed in July 2010. Please refer to *Hawai‘i’s Green Workforce: A Baseline Assessment* for background information and methodological details.

This directory is not intended to be a comprehensive listing of green businesses in the State of Hawai‘i. The companies listed are those that were included in the statistically-drawn random sample, reported green jobs, and agreed to be listed. By definition, exclusion from this list does not necessarily imply that a business does not provide green jobs.

While we have made every effort to validate the accuracy of data in this directory, the State of Hawai‘i and the Department of Labor & Industrial Relations (DLIR) provide this information for educational and informative purposes only and assume no liability for its usage. We welcome feedback on corrections or updates.

The second and third sections of this publication provide a separate listing of businesses by the Department of Business, Economic Development & Tourism (DBEDT) that may be participating in green business activity. Please contact the agency directly at the telephone number noted.



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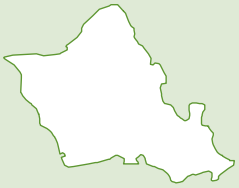
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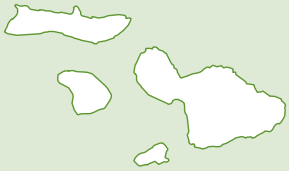
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ISLAND ART CARDS
P. O. Box 120
Haiku, HI 96708-120
(808) 572-1280
Lisa Mavreti, General Manager
lisa@islandartcards.com

Real Estate and Rental & Leasing

MAUI SUNRIDERS BIKE CO., INC.
P. O. Box 790921
Paia, HI 96779-921
(808) 579-8970
Dani M. Brock, Vice President
info@mauibikeride.com

Professional, Scientific, & Technical Services

GREEN BUILDING LLC
2381 Waipua Street
Paia, HI 96779-9752
(808) 214-4596
Kristi Bendon, Office Manager
kristi@greenbuildinghawaii.com

GYA ARCHITECTS INC.
220 Imi Kala Street, Suite 201
Wailuku, HI 96793-1209
(808) 242-4666
Denise F. Yoshimori-Yamamoto, President
dyoshimori.gyaoahu@gmail.com

HAWAIIAN BREEZE SOLUTIONS CORP.
48 Maka Hou Loop
Wailuku, HI 96793-3511
(877) 223-5450
Jason Porta, Owner
jason.porta@hawaiiansolutions.com

ISLAND ATTITUDES FURNITURE DESIGN
411 Huku Lii Place, Unit 101
Kihei, HI 96753
(808) 879-4147
Richard Kellom, Vice President
richard@islandattitudes.net

ISLAND STYLE DESIGNS
430 Alamaha Street, Suite 102
Kahului, HI 96732-2446
(808) 871-5877
Lisa Mosbarcer, Owner and Designer
islandstyledesigns@yahoo.com

TOM PIERCE, ATTORNEY AT LAW
P. O. Box 798
Makawao, HI 96768-798
(808) 573-2428
Tom Pierce, Attorney
tom@mauilandlaw.com

Administrative & Waste Services

BOWMAN TERMITE & PEST CONTROL
253 Waiehu Beach Road
Wailuku, HI 96793-1418
(808) 244-0296
Wakon Childers, Vice President
wakon@bowmantermite.com

ED ROBINSON'S DIVING ADVENTURE
P. O. Box 616
Kihei, HI 96753
(808) 879-3584
Evalyn Schultz, Manager
robinson@maui.net

FLEABUSTERS OF HAWAII
P. O. Box 791599
Paia, HI 96779-1599
(808) 523-2929
info@ecosmartpestcontrol.com

ISLAND PLANT COMPANY LLC
P. O. Box 880360
Pukalani, HI 96788-360
(808) 572-5094
Pat Duarte, Accountant
Pat@Islandplant.Com

MID-PACIFIC PEST CONTROL INC.
P. O. Box 2295
Kihei, HI 96753-2295
(808) 249-2233
Alex R., Human Resources Manager
midpac@maui.net

PUROCLEAN EMERGENCY RESTORATION SERVICES
415 Dairy Road, Suite E138
Kahului, HI 96732
(808) 986-8881
M. Hoenig

PWC HAWAII CORPORATION
P. O. Box 785
Lahaina, HI 96767
(808) 661-3760
Jennifer Hansen, Personnel
pwcjen@hawaii.rr.com

TH INC.
P. O. Box 791186
Paia, HI 96779-1186
Aaron Holmes, President
mindbodyandsoil@smail.com

YAKSIC CLEANING & MAINTENANCE
2737 S. Kihei Road
Kihei, HI 96753
(808) 879-5774
Catrina Yaksic, Vice President
pyaksic@maui.net

Educational Services

HUI MALAMA LEARNING CENTER
375 Mahalani Street
Wailuku, HI 96793
(808) 242-6816
Malia Quenga, Academic Affairs Specialist
malia.quenga@mauihui.org

MONTESSORI OF MAUI, INC.
2933 Baldwin Avenue
Makawao, HI 96768-9640
(808) 573-2706
Cheryl Kaupalolo, Business Manager
cherylk@momi.org

Health Care & Social Assistance

HANA HEALTH
P. O. Box 807
Hana, HI 96713-807
(808) 248-7515, ext. 26
Cheryl Vasconcellos, Executive Director
admin@hanahealth.org

HAWAII JOB CORPS
500 Ike Drive
Makawao, HI 96768
(801) 626-2059
Robert Upton, Site Director
upton.robert@jobcorps.org

MAUI ECONOMIC OPPORTUNITY INC.
P. O. Box 2122
Kahului, HI 96733
(808) 249-2990
Lyn Mcneff, Chief Program Officer
lyn.mcneff@meoinc.org

Arts, Entertainment, & Recreation

KAHANU GARDENS
3530 Papalina Road
Kalaheo, HI 96741
(808) 332-7324

KAPALUA LAND CO. LTD.
P. O. Box 187
Kahului, HI 96733-6687
(808) 877-3809
Diane Loui, Human Resources Director
dlouicmlpmaui.com

WEST MAUI SOIL & WATER
P. O. Box 2993
Wailuku, HI 96793-7993
Maggie Kramp, Administrative Assistant
maggie.kramp@hi.nacdnet.net

Accommodation & Food Services

FOUR SEASONS RESORT MAUI
3900 Wailea Alanui Drive
Kihei, HI 96753-8445
(808) 874-8000
Alissa Baptist, Assistant Director of Human Resources
alissa.baptist@fourseasons.com

HOTEL HANA-MAUI
P. O. Box 10
Hana, HI 96713-10
(808) 321-4262
Jamie Demello, Human Resources Specialist
jamiedemello@hotelhanamaui.com

MARRIOTT RESORTS TIME SHARE
100 Nohea Kai Drive
Lahaina, HI 96761
(808) 667-1200
Jay Corpuz, Chief Engineer
jay.corpuz@vacationclub.com

RITZ CARLTON HOTEL
1 Ritz-Carlton Drive
Kapalua, HI 96761
(808) 665-7014
Joe Robillard, Director of Engineering
joe.robillard@ritzcarlton.com

RITZ CARLTON HOTEL
1 Bay Drive
Lahaina, HI 96761
(808) 662-6566
Noah Unger, Human Resources Manager
noah.unger@ritzcarlton.com

Other Services

AM SERVICES INC.
P. O. Box 2261
Kihei, HI 96753-2261
(808) 280-4077
Jason Parsons, Mechanic
jason@amserviceinc.com

AUTOTECH MAUI INC.
1720 Wili Pa Loop
Wailuku, HI 96793-1240
(808) 244-9069
Philipp Mueller, Owner
philipp@autotechmaui.com

MAUI ECONOMIC DEVELOPMENT
1305 N Holopono Street, Suite 1
Kihei, HI 96753-6916
(808) 875-2300
joy@medb.org

MAUI'S QUALITY DRY CLEANING
380 Hookahi Street, # 101
Wailuku, HI 96793-1449
(808) 244-1945
Jamie Lanias, Office Manager
mauisqualitydc@aol.com



Kaua‘i County

Agriculture

HAWAII REFORESTATION NURSERY
5927 Kawaihau Road
Kapaa, HI 96746-9114
(808) 821-8841
John Edson, Owner
jedson@hawaiiantel.net

Utilities

KAUAI ISLAND UTILITY CO-OP
4463 Pahee Street
Lihue, HI 96766-2000

Construction

BRIANT CONSTRUCTION INC.
3560 Koloa Road
Kalaheo, HI 96741-9160
(808) 332-7655
Michael Flanagan, Project Manager
mflanagan@briantconstruction.com

JOE PATTILLO PLUMBING
1620 Papau Place
Kapaa, HI 96746
(808) 652-6065
Joe Pattillo
joe@joepattilloplumbing.com

M CERIA CONSTRUCTION INC.
2869 Poipu Road, # B
Koloa, HI 96756-8524
(808) 742-1124

PACIFIC LIGHT & POWER HOLDINGS, LLC
P. O. Box 261
Anahola, HI 96703-1298
(808) 826-1966
Pamela Miller
info@pacificlightandpower.com

R ELECTRIC INC.
P. O. Box 951
Lihue, HI 96766
(808) 245-8852
Robby Rask, President
robby@r-elect.com

READYMAN SERVICES INC.
6736B Puu Pilo Place
Kapaa, HI 96746
(808) 635-7713
Ryan Kimball, President
ryan@readymanservices.com

UNLIMITED CONSTRUCTION
P. O. Box 3327
Lihue, HI 96766
(808) 245-7843
Jeanette, Assistant Controller
jeanette@unlimitedhawaii.com

Manufacturing

BANANA PATCH STUDIO
P. O. Box 950
Hanapepe, HI 96716-950
(808) 335-5944
Sheri Boulay, Office Manager
orders@bananapatchstudio.com

Wholesale Trade

T ESAKI FARM INC.
4780 Kahau Road
Kapaa, HI 96746
(808) 822-7722
Earl Kashiwagi, General Manager
esaki@esakisproduce.com

Retail Trade

KILOHANA LIGHTING INC.
4210 Hanahao Place
Lihue, HI 96766-8987
(808) 245-6900
Susan Irie, President
susan@kilohanalighting.com

Professional, Scientific, & Technical Services

PIONEER HI-BRED INTERNATIONAL INC.
P. O. Box 8
Kekaha, HI 96752-596
(808) 337-1413
Allison Toma

Administrative & Waste Services

KAUAI COMMUNITY RECYCLING SERVICE
Olohena Ra Pbx 1768
Kapaa, HI 96746-1283
(808) 645-1676
James Higginbotham, Owner
kcrsllc@hotmail.com

KAUAI NURSERY/LANDSCAPING INC.
3-1550 Kaumualii Highway
Lihue, HI 96766
knl@kauainursery.com

KNL MAINTENANCE INC.
3-1550 Kaumualii Highway
Lihue, HI 96766-9582
knl@kauainursery.com

NO KA OI PLANTS
P. O. Box 879
Hanapepe, HI 96716-879
(808) 335-5887
Abby Santos, Chief Financial Officer
abby@nkolandscaping.com

Arts, Entertainment, & Recreation

KAUAI MUSEUM ASSOCIATION LTD.
4428 Rice Street
Lihue, HI 96766-1338
(808) 245-6931
Jane Gray, Executive Director
kapule10@hotmail.com

KUKUIOLONO PARK AND GOLF COURSE
P. O. Box 1031, Attn: Pat Hunt, General Manager
Kalaheo, HI 96741
(808) 332-9151
Patrick Hunt, General Manager
phunt@kukuiolono.com

LIMAHULI GARDEN
3530 Papalina Road
Kalaheo, HI 96741
(808) 332-7324
Shantel San Agustin, Director of Limahuli Garden and Preserve

Accommodation & Food Services

PONO KAI
4-1250 Kuhio Highway
Kapaa, HI 96746

Other Services

ANDARA PLANTATION
3770 Punahele Road
Princeville, HI 96722
Karen Tang, Chief Operating Officer and Office Manager
tangio@gmail.com

GARDEN ISLAND RESOURCE CONSERVATION
3083 Akahi Street, Suite 204
Lihue, HI 96766
(808) 982-2677
Owen S. Moe, President
osmoe@hawaiiantel.net

KAUAI ECONOMIC DEVELOPMENT BOARD
4290 Rice Street
Lihue, HI 96766-1329
(808) 245-6692
Mattie Yoshioka, President & CEO
myoshioka@kedb.com

Definitions of Major Industry Groups

Agriculture, Foresty, Fishing, and Hunting

DISTINGUISHING ACTIVITIES: Growing Crops, Raising Animals, Harvesting Timber, and Harvesting Fish and Other Animals from Farms, Ranches, or the Animals' Natural Habitats.
PREDOMINANT GREEN OCCUPATIONS: Farm Workers and Laborers (Crop), Retail Salespersons, Graders and Sorters (Agricultural Products), Farmworkers (Farm and Ranch Animals).

Mining

DISTINGUISHING ACTIVITIES: Extracting Naturally Occurring Mineral Solids, such as Coal and Ore; Liquid Minerals, such as Crude Petroleum; and Gases, such as Natural Gas; and Beneficiating (e.g., Crushing, Screening, Washing, and Flotation) and Other Preparation at the Mine Site, or as part of Mining Activity.

Utilities

DISTINGUISHING ACTIVITIES: Generating, Transmitting, and/or Distributing Electricity, Gas, Steam, and Water and Removing Sewage through a Permanent Infrastructure of Lines, Mains, and Pipe.
PREDOMINANT GREEN OCCUPATIONS: Maintenance and Repair Workers (General), Electrical Engineers, Energy Engineers.

Construction

DISTINGUISHING ACTIVITIES: Erecting Buildings and Other Structures (Including Additions); Heavy Construction Other Than Buildings; and Alterations, Reconstruction, Installation, and Maintenance and Repairs.
PREDOMINANT GREEN OCCUPATIONS: Electricians, Construction Carpenters, Insulation Workers (Floor, Ceiling, & Tile), Solar Photovoltaic Installers, Insulation Workers (Mechanical), Heating and Air Conditioning Mechanics and Installers, Environmental Science and Protection Technicians (including Health), Plumbers, Hazardous Materials Removal Workers, Solar Thermal Installers and Technicians, First-Line Supervisors/ Managers of Construction Trades and Extraction Workers, Construction Laborers.

Manufacturing

DISTINGUISHING ACTIVITIES: Mechanical, Physical, or Chemical Transformation of Material, Substances, or Components into New Products.
PREDOMINANT GREEN OCCUPATIONS: Cabinetmakers and Bench Carpenters, Printing Machine Operators.

Wholesale Trade

DISTINGUISHING ACTIVITIES: Selling or Arranging for the Purchase or Sale of Goods for Resale; Capital or Durable Nonconsumer Goods; and Raw and Intermediate Materials and Supplies Used in Production, and Providing Services Incidental to the Sale of the Merchandise.
PREDOMINANT GREEN OCCUPATIONS: Laborers and Freight Stock and Material Movers (Hand), Recycling and Reclaimation Workers, Sales Representatives (Wholesale and Manufacturing, Technical and Scientific Products).

Retail Trade

DISTINGUISHING ACTIVITIES: Retailing Merchandise Generally in Small Quantities to the General Public and Providing Services Incidental to the Sale of the Merchandise.
PREDOMINANT GREEN OCCUPATIONS: Retail Salespersons; Inspectors, Testers, Sorters, Samplers, and Weighers; First-Line Supervisors/Managers of Retail Sales Workers; Sales Representatives (Services, All Other).

Transportation and Warehousing

DISTINGUISHING ACTIVITIES: Providing Transportation of Passengers and Cargo, Warehousing and Storing Goods, Scenic and Sightseeing Transporation, and Supporting These Activities.
PREDOMINANT GREEN OCCUPATIONS: Transportation Workers (All Other), Commercial Divers.

Information

DISTINGUISHING ACTIVITIES: Distributing Information and Cultural Products, Providing the Means to Transmit or Distribute These Products as Data or Communications, and Processing Data.

Finance and Insurance

DISTINGUISHING ACTIVITIES: Creation, Liquidation, or Change in Ownership of Financial Assets (Financial Transactions) and/or Facilitating Financial Transactions.

Real Estate and Rental and Leasing

DISTINGUISHING ACTIVITIES: Renting, Leasing, or Otherwise Allowing the Use of Tangible or Intangible Assets (Except Copyrighted Works), and Providing Related Services.

Professional, Scientific, and Technical Services

DISTINGUISHING ACTIVITIES: Performing Professional, Scientific, and Technical Services for the Operations of Other Organizations.
PREDOMINANT GREEN OCCUPATIONS: Civil Engineers, Electrical Engineers, Electricians, Environmental Scientists and Specialists (including Health), Architects (excluding Landscape and Naval), Computer Support Specialists, Interior Designers, Mechanical Engineers, Engineering Managers.

Management of Companies and Enterprises

DISTINGUISHING ACTIVITIES: Holding of Securities of Companies and Enterprises for the Purpose of Owning Controlling Interest or Influencing Their Management Decision, or Administering, Overseeing, and Managing Other Establishments of the Same Company or Enterprise and Normally Undertaking the Strategic or Organizational Planning and Decision Making of the Company or Enterprise.

Administrative and Support and Waste Management and Remediation Services

DISTINGUISHING ACTIVITIES: Performing Routine Support Activities for the Day-to-Day Operations of Other Organizations.
PREDOMINANT GREEN OCCUPATIONS: Janitors and Cleaners (excluding Maids and Housekeeping Cleaners), Forest and Conservation Technicians, Security Guards, Landscaping and Groundskeeping Workers, Solar Thermal Installers and Technicians, Construction Laborers, Recycling and Reclamation Workers, Tree Trimmers and Pruners, Pest Control Workers.

Educational Services

DISTINGUISHING ACTIVITIES: Providing Instruction and Training in a Wide Variety of Subjects.
PREDOMINANT GREEN OCCUPATIONS: Forest and Conservation Workers, Vocational Education Teachers (Secondary School).

Health Care and Social Assistance

DISTINGUISHING ACTIVITIES: Providing Health Care and Social Assistance for Individuals.
PREDOMINANT GREEN OCCUPATIONS: Farmers and Ranchers, Truck Drivers (Light Or Delivery Services).

Arts, Entertainment, and Recreation

DISTINGUISHING ACTIVITIES: Operating or Providing Services to Meet Varied Cultural, Entertainment, and Recreational Interests of Their Patrons.
PREDOMINANT GREEN OCCUPATIONS: Landscaping and Groundskeeping Workers, Office Clerks (General).

Accommodation and Food Services

DISTINGUISHING ACTIVITIES: Providing Customers with Lodging and/or Preparing Meals, Snacks, and Beverages for Immediate Consumption.
PREDOMINANT GREEN OCCUPATIONS: First-Line Supervisors/Managers of Landscaping Lawn Service and Groundskeeping Workers, Maintenance and Repair Workers (General).

Other Services (Excluding Public Administration)

DISTINGUISHING ACTIVITIES: Providing Services Not Elsewhere Specified, including Repairs, Religious Activities, Grantmaking, Advocacy, Laundry, Personal Care, Death Care, and Other Personal Services.
PREDOMINANT GREEN OCCUPATIONS: Heating and Air Conditioning Mechanics and Installers, Public Relations Specialists, Telemarketers, Upholsterers, Automotive Speciality Technicians.

Definitions of Occupations

ARCHITECTS, EXCEPT LANDSCAPE AND NAVAL: Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.

AUTOMOTIVE SPECIALITY TECHNICIANS: Repair only one system or component on a vehicle, such as brakes, suspension, or radiator.

CABINETMAKERS AND BENCH CARPENTERS: Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products.

CIVIL ENGINEERS: Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Includes architectural, structural, traffic, ocean, and geo-technical engineers.

COMMERCIAL DIVERS: Work below surface of water, using scuba gear to inspect, repair, remove, or install equipment and structures. May use a variety of power and hand tools, such as drills, sledgehammers, torches, and welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life.

COMPUTER SUPPORT SPECIALISTS: Provide technical assistance to computer system users. Answer questions or resolve computer problems for clients in person, via telephone or from remote location. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems.

CONSTRUCTION CARPENTERS: Construct, erect, install, and repair structures and fixtures of wood, plywood, and wallboard, using carpenter's hand tools and power tools.

CONSTRUCTION LABORERS: Perform tasks involving physical labor at building, highway, and heavy construction projects, tunnel and shaft excavations, and demolition sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments. May clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding, clean up rubble and debris, and remove asbestos, lead, and other hazardous waste materials. May assist other craft workers.

ELECTRICAL ENGINEERS: Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.

ELECTRICIANS: Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

ENERGY ENGINEERS: Design, develop, and evaluate energy-related projects and programs to reduce energy costs or improve energy efficiency during the designing, building, or remodeling stages of construction. May specialize in electrical systems; heating, ventilation, and air-conditioning (HVAC) systems; green buildings; lighting; air quality; or energy procurement.

ENGINEERING MANAGERS: Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields.

ENVIRONMENTAL SCIENCE AND PROTECTION TECHNICIANS, INCLUDING HEALTH: Performs laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health. Under direction of an environmental scientist or specialist, may collect samples of gases, soil, water, and other materials for testing and take corrective actions as assigned.

ENVIRONMENTAL SCIENTISTS AND SPECIALISTS, INCLUDING HEALTH: Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Utilizing knowledge of various scientific disciplines may collect, synthesize, study, report, and take action based

on data derived from measurements or observations of air, food, soil, water, and other sources.

FARM WORKERS AND LABORERS, CROP: Manually plant, cultivate, and harvest vegetables, fruits, nuts and field crops. Use hand tools, such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives. Duties may include tilling soil and applying fertilizers; transplanting, weeding, thinning, or pruning crops; applying pesticides; cleaning, packing, and loading harvested products. May construct trellises, repair fences and farm buildings, or participate in irrigation activities.

FARM WORKERS, FARM AND RANCH ANIMALS: Attend to live farm, ranch, or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, finfish, shellfish, and bees. Attend to animals produced for animal products, such as meat, fur, skins, feathers, eggs, milk, and honey. Duties may include feeding, watering, herding, grazing, castrating, branding, de-beaking, weighing, catching, and loading animals. May maintain records on animals; examine animals to detect diseases and injuries; assist in birth deliveries; and administer medications, vaccinations, or insecticides as appropriate. May clean and maintain animal housing areas.

FARMERS AND RANCHERS: On an ownership or rental basis, operate farms, ranches, greenhouses, nurseries, timber tracts, or other agricultural production establishments which produce crops, horticultural specialties, livestock, poultry, finfish, shellfish, or animal specialties. May plant, cultivate, harvest, perform post-harvest activities, and market crops and livestock; may hire, train, and supervise farm workers or supervise a farm labor contractor; may prepare cost, production, and other records. May maintain and operate machinery and perform physical work.

FIRST-LINE SUPERVISORS/MANAGERS OF CONSTRUCTION TRADES AND EXTRACTION WORKERS: Directly supervise and coordinate activities of construction or extraction workers.

FIRST-LINE SUPERVISORS/MANAGERS OF LANDSCAPING, LAWN SERVICE AND GROUNDSKEEPING WORKERS: Plan, organize, direct, or coordinate activities of workers engaged in landscaping or groundskeeping activities, such as planting and maintaining ornamental trees, shrubs, flowers, and lawns, and applying fertilizers, pesticides, and other chemicals, according to contract specifications. May also coordinate activities of workers engaged in terracing hillsides, building retaining walls, constructing pathways, installing patios, and similar activities in following a landscape design plan. Work may involve reviewing contracts to ascertain service, machine, and work force requirements; answering inquiries from potential customers regarding methods, material, and price ranges; and preparing estimates according to labor, material, and machine costs.

FIRST-LINE SUPERVISORS/MANAGERS OF RETAIL SALES WORKERS: Directly supervise sales workers in a retail establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.

FOREST AND CONSERVATION TECHNICIANS: Compile data pertaining to size, content, condition, and other characteristics of forest tracts, under direction of foresters; train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats, and help provide technical assistance regarding the conservation of soil, water, and related natural resources.

FOREST AND CONSERVATION WORKERS: Under supervision, perform manual labor necessary to develop, maintain, or protect forest, forested areas, and woodlands through such activities as raising and transporting tree seedlings; combating insects, pests, and diseases harmful to trees; and building erosion and water control structures and leaching of forest soil. Includes forester aides, seedling pullers, and tree planters.

GRADERS AND SORTERS, AGRICULTURAL PRODUCTS: Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition.

HAZARDOUS MATERIALS REMOVAL WORKERS: Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, contaminated soil, etc. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earth-moving equipment or trucks.

HEATING AND AIR CONDITIONING MECHANICS AND INSTALLERS: Install, service, and repair heating and air conditioning systems in residences and commercial establishments.

INSPECTORS, TESTERS, SORTERS, SAMPLERS, AND WEIGHERS: Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.

INSULATION WORKERS, FLOOR, CEILING, AND TILE: Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.

INSULATION WORKERS, MECHANICAL: Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.

INTERIOR DESIGNERS: Plan, design, and furnish interiors of residential, commercial, or industrial buildings. Formulate design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style. May specialize in a particular field, style, or phase of interior design.

JANITORS AND CLEANERS, EXCEPT MAIDS AND HOUSEKEEPING CLEANERS: Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk.

LABORERS AND FREIGHT STOCK AND MATERIAL MOVERS, HAND: Manually move freight, stock, or other materials or perform other unskilled general labor. Includes all unskilled manual laborers not elsewhere classified.

LANDSCAPING AND GROUNDSKEEPING WORKERS: Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of tasks, which may include any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, sprinkler installation, and installation of mortarless segmental concrete masonry wall units.

MAINTENANCE AND REPAIR WORKERS, GENERAL: Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs.

MECHANICAL ENGINEERS: Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of such equipment as centralized heat, gas, water, and steam systems.

OFFICE CLERKS, GENERAL: Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring limited knowledge of office management systems and procedures. Clerical duties may be assigned in accordance with the office procedures of individual establishments and may include a combination of answering telephones, bookkeeping, typing or word processing, stenography, office machine operation, and filing.

PEST CONTROL WORKERS: Spray or release chemical solutions or toxic gases and set traps to kill pests and vermin, such as mice, termites, and roaches, that infest buildings and surrounding areas.

PLUMBERS: Assemble, install, and repair pipes, fittings, and fixtures of heating, water, and drainage systems, according to specifications and plumbing codes.

PRINTING MACHINE OPERATORS: Set up or operate various types of printing machines, such as offset, letterset, intaglio, or gravure presses or screen printers to produce print on paper or other materials.

PUBLIC RELATIONS SPECIALISTS: Engage in promoting or creating good will for individuals, groups, or organizations by writing or selecting favorable publicity material and releasing it through various communications media. May prepare and arrange displays, and make speeches.

RECYCLING AND RECLAIMATION WORKERS: Prepare and sort materials or products for recycling. Identify and remove hazardous substances. Dismantle components of products such as appliances.

RETAIL SALESPERSON: Sell merchandise, such as furniture, motor vehicles, appliances, or apparel in a retail establishment.

SALES REPRESENTATIVES, SERVICES, ALL OTHER: All services sales representatives not listed separately.

SALES REPRESENTATIVES, WHOLESALE AND MANUFACTURING, TECHNICAL AND SCIENTIFIC PRODUCTS: Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least 2 years of post-secondary education.

SECURITY GUARDS: Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules.

SOLAR PHOTOVOLTAIC INSTALLERS: Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks.

SOLAR THERMAL INSTALLERS AND TECHNICIANS: Install or repair solar energy systems designed to collect, store, and circulate solar-heated water for residential, commercial or industrial use.

TELEMARKETERS: Solicit orders for goods or services over the telephone.

TRANSPORTATION WORKERS, ALL OTHER: All transportation workers not listed separately.

TREE TRIMMERS AND PRUNERS: Cut away dead or excess branches from trees or shrubs to maintain right-of-way for roads, sidewalks, or utilities, or to improve appearance, health, and value of tree. Prune or treat trees or shrubs using handsaws, pruning hooks, sheers, and clippers. May use truck-mounted lifts and power pruners. May fill cavities in trees to promote healing and prevent deterioration.

TRUCK DRIVERS, LIGHT OR DELIVERY SERVICES: Drive a truck or van with a capacity of under 26,000 GVW, primarily to deliver or pick up merchandise or to deliver packages within a specified area. May require use of automatic routing or location software. May load and unload truck.

UPHOLSTERERS: Make, repair, or replace upholstery for household furniture or transportation vehicles.

VOCATIONAL EDUCATION TEACHERS, SECONDARY SCHOOL: Teach or instruct vocational or occupational subjects at the secondary school level.

The Hawaii Directory of Life Sciences



Businesses
Organizations
Research Institutions
Government Agencies

April 2009

ABR, LLC
Bryan Hiromoto, Manager
P.O. Box 1405
Puunene, Hawaii 96784
Phone: (808) 873-8588 **Fax:** (808) 873-8588
Email: hiromoto@aloha.net
Website:
Produces pesticides and fertilizers.

Advantage Capital Partners
Douglas R. Beekman, Principal
3128 M Street N.W., Suite 310
Washington, DC 20007
Phone: (202) 337-0034 **Fax:** (202) 337-0036
Email: information@advantagecap.com
Website: www.advantagecap.com
Advantage Capital is a venture capital and private equity firm focused on early-stage companies and other investments supporting state and local economic development. With offices in Louisiana, Missouri, New York and other states, Advantage has raised more than $750 million in institutional private equity since 1992 and invested in companies located in geographic areas underserved by traditional venture capital.

Ag Innovations LLC
Roxana Meyer Cabos, President & CEO
27-246C Old Mamalahoa Hwy PO Box 414
Papaikou, Hawaii 96781
Phone: (808) 964-2200 **Fax:** (808) 961-9038
Email: roxana@aglab.net
Website: www.aglab.net
Ag Innovations, LLC is an agricultural research and development laboratory with supporting greenhouses and farm facilities. Research is being conducted on biofuels feedstocks, biological pesticides, pathogen management, and novel micropropagation techniques.

AMEC
Eric Wetzstein, Honolulu Operations Manager
3375 Koapaka Street, Suite F-251
Honolulu, Hawaii 96818
Phone: (808) 545-2462 **Fax:** (808) 528-5379
Email: eric.wetzstein@amec.com
Website: www.amec.com
Multi-disciplined solutions covering all aspects of environmental services, planning, remediation, and construction management.

Aquaculture Development Program, Department of Agriculture
Todd Low, Manager
1177 Alakea Street, Room 400
Honolulu, Hawaii 96813
Phone: (808) 587-0030 **Fax:** (808) 587-0033
Email: info@hawaiiaquaculture.org
Website: www.hawaiiaquaculture.org
To develop a sustainable and profitable commercial aquaculture industry by encouraging a diversity of products, improving management practices and technologies, and providing direct assistance with regulations and permits, disease, marketing and new business development.

Aquaculture Technology, Inc.
Jaw-Kai Wang, President
455 Anolani Street
Honolulu, Hawaii 96821
Phone: (808) 377-5087 **Fax:** (808) 377-5087
Email: jawkai@yahoo.com
Website:
Conducts research to identify, test and produce novel antibiotic products from marine microalgae.

Aquatic Farms
Andrew Kuljis, President
49-138 Kamehameha Highway
Kaneohe, Hawaii 96744
Phone: (808) 239-2929 **Fax:** (808) 239-8436
Email: officeafl@aol.com
Website:
Privately held company specializing in aquaculture production, research, training & transfer of technology.

Archinoetics, LLC
Traci H. Downs, President & Chief Operating Officer
700 Bishop Street, Suite 2000
Honolulu, Hawaii 96813
Phone: (808) 585-7439 **Fax:** (888) 279-0289
Email: info@archinoetics.com
Website: www.archinoetics.com
Archinoetics is a small, Hawaii-based high tech company that focuses on the research and development of human-centered technologies. Current projects include functional optical brain imaging systems, human fatigue and performance monitoring devices, and the development of intelligent algorithms based on genetic programming and biometric sensors. The framework for

Archinoetics is the trademarked iHAT™ framework (Intelligent Human-Assistive Technology).

Asia Pacific Research Center
Kip Kamoto, Project Executive
3465 Waialae Avenue, Suite 320
Honolulu, Hawaii 96816
Phone: (808) 739-9399 **Fax:** (808) 739-9411
Email: Kkamoto@kudllc.com
Website: www.kudllc.com
Hawaii's 300,000 square foot laboratory research campus located on a 5-acre parcel across from the University of Hawaii John A. Burns School of Medicine is an excellent facility for cutting edge research and technology companies. The synergies between biotech life science and high-tech companies that collaborate at international levels will be unsurpassed.

Asia-Pacific Institute of Tropical Medicine & Infectious Diseases, John A. Burns School of Medicine
Duane J. Gubler, Director
651 Ilalo Street, BSB 3rd Floor
Honolulu, Hawaii 96813
Phone: (808) 692-1606 **Fax:** (808) 692-1979
Email: dgubler@hawaii.edu
Website: www.apitmid.hawaii.edu
The Asia-Pacific Institute of Tropical Medicine and Infectious Diseases collects data to develop early-warning systems for epidemic transmission of infectious diseases in the Asia-Pacific region by using the latest diagnostic, epidemiologic and information technology. The Institute consists of 6 centers, 5 research core units, 5 technical core facilities, and 6 medical sciences programs. It is administratively located in the John A. Burns School of Medicine.

BioReal, Inc.
Toshiyuki Yamagioki, President
1777 Piilani Highway
Kihei, Hawaii 96753
Phone: (808) 875-2436 **Fax:** (808) 875-2416
Email:
Website: www.bioreal.com
A microalgal biotechnology company specializing in the efficient mass-cultivation of microalgae for the global market.

BioXene
Victor Wong, CEO
4224 Waialae Avenue, #276
Honolulu, Hawaii 96816
Phone: (808) 781-9537 **Fax:** (866) 650-8322
Email: victor@bioxene.com
Website:
BioXene is a Hawaii-based biotechnology company with technology developed at the University of Hawaii. BioXene's platform technology using nano-scale proteins enables the detection of a wide variety of biological targets such as viruses, antibodies, proteins and toxins. BioXene's highly sensitive homogeneous solution-based assays significantly reduces detection time with minimal sample preparation, does not reqire a lab setting or a lab technician. Current products in development include rapid sensitive reagents capable of detecting avian influenza (bird flu) antibodies and affinity-tagged proteins.

Cades Schutte
Vito Galati, Esq.,
1000 Bishop Street, Suite 1200
Honolulu, Hawaii 96813
Phone: (808) 521-9347 **Fax:** (808) 540-5074
Email: vgalati@cades.com
Website: www.cades.com
Cades Schutte was founded in 1992 and is one of Hawaii's largest and oldest law firms with approximately 70 attorneys. Cades Schutte is a full service firm with an emphasis on business counseling and offers a wide range of legal services serving local, national and international clients from offices on five floors in the Cades Schutte Building located in downtown Honolulu, as well as from an office in Kailua-Kona on the island of Hawaii.

Cancer Research Center of Hawaii
Michele Carbone, M.D., Acting Director
1236 Lauhala Street
Honolulu, Hawaii 96813
Phone: (808) 586-3013 **Fax:** (808) 586-3052
Email: cvogel@crch.hawaii.edu
Website: www.crch.org
The Cancer Research Center of Hawaii is one of 63 National Cancer Institute-designated cancer centers across the United States. The Center is renowned for its epidemiologic research identifying the relationships between diet, genetics and cancer. Its Prevention and Control Program encompasses clinical research, clinical

trials, quality of life research, and community based cancer prevention studies. The Natural Products and Cancer Biology Program is dedicated to the discovery of new cancer chemotherapeutic agents from the diverse flora and fauna of the Pacific through the interaction of natural product and synthetic chemists with molecular biologists studying the molecular signaling pathways leading to cancer. The Center has 53 Full and Associate Members and approximately 74 clinical and affiliate members that participate in the Center's research activities. Over the last five years Center members have published over 700 scientific articles, received greater than $125 million in research funding and enrolled nearly a thousand patients in cancer treatment and prevention trials.

Cardax Pharmaceuticals, Inc.
David G. Watumull, President & CEO
99-193 Aiea Heights Drive Suite 400
Aiea, Hawaii 96701
Phone: (808) 457-1376 **Fax:** (808) 237-5902
Email: dwatumull@cardaxpharma.com
Website: www.cardaxpharma.com
A drug discovery and development company focused on developing effective therapeutics for large, unmet needs in the area of inflamatory medicine.

Carlsmith Ball LLP.
Gerald A. Sumida, Of Counsel
1001 Bishop Street ASB Tower, Suite 2200
Honolulu, Hawaii 96813
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Website:
Carlsmith Ball LLP is the oldest and largest Hawaiibased law firm, with offices throughout the Pacific Rim, stretching from the Hawaiian and Northern Mariana Islands to Guam, Los Angeles and Washington, D.C. Carlsmith provides a wide variety of legal services to clients who range from individual investors and entrepreneurs, to family-run businesses, to large corporations and international conglomerates. Carlsmith assists its emerging growth company clients in a broad array of legal matters, including capital-raising transactions, employment arrangements, equity incentive programs, tax and pension matters, business and commercial transactions, and real estate leasing.

Cellular Bioengineering, Inc.
Hank C.K. Wuh, Founder, Chairman
1946 Young Street, Suite 480
Honolulu, Hawaii 96826
Phone: (808) 949-2208 **Fax:** (808) 949-2209
Email: wuhman@aol.com
Website: www.cellularbioengineering.com
Leader in the field of regenerative medicine and pioneering the bioengineering of corneal, nerve and other human tissues to replace diseased, aging, and injured organs and to address the severe worldwide shortage of donors.

Center for Genomics, Proteomics, and Bioinformatic Research Initiative
Tak Sugimura, Associate Director
2565 McCarthy Mall Keller 319
Honolulu, Hawaii 96822
Phone: (808) 956-0924 **Fax:** (808) 956-5339
Email: tak@mhpcc.edu
Website:
The Center aims to provide access to technology in the areas of genomics, proteomics and bioinformatics for various biological science units at UH-Manoa and the biosciences industry in Hawaii.

Center for Marine Microbial Ecology & Diversity (CMMED), University of Hawaii
Robert R. Bidigare, Director
1680 East-West Road, Post 105
Honolulu, Hawaii 96822-2327
Phone: (808) 956-8146 **Fax:** (808) 956-5308
Email: bidigare@hawaii.edu
Website:
CMMED facilitates sponsored research activities between UH faculty and biotech companies; maintains shared-use analytical and culture collection facilities for drug discovery and provides administrative support for large, interdisciplinary research projects supported by governmental agencies and private industry. CMMED recently obtained federal funding to establish the Pacific Research Center for Marine Biomedicine (PRCMB)and is conducting interdisciplinary research on harmful algal blooms, water- and vector-borne diseases, and marine-derived pharmaceuticals and pharmacological probes.

CH2M Hill
Paul Luersen, Vice President
1585 Kapiolani Boulevard, Suite 1420
Honolulu, Hawaii 96814-4530
Phone: (808) 943-1133 **Fax:** (808) 954-4400
Email: paul.luersen@ch2m.com
Website: www.ch2m.com
Providing environmental consulting services for site investigations, remediation design and construction, industrial/hazardous waste treatment, permitting, environmental liability management, ecological and natural resource planning and restoration, and sustainable development planning.

City & County of Honolulu, Office of Economic Development
Ann Chung, Director
530 South King Street, Room 306
Honolulu, Hawaii 96813
Phone: (808) 527-5761 **Fax:** (808) 523-4242
Email: achung@honolulu.gov
Website: www.honolulu.gov

Clear Fuels Technology Inc.
Eric Darmstaedter, CFO
Hawaii Agricultural Research Center 99-193 Aiea Heights Drive, Suite 308
Aiea, Hawaii 96701
Phone: (808) 221-2570 **Fax:** (808) 259-8049
Email: shleser@aloha.net
Website:
Reformation of waste biomass to produce ethanol electricity hydrogen and alternative transportation fuels.

College of Tropical Agriculture & Human Resources, University of Hawaii
Andrew G. Hashimoto, Dean and Director
3050 Maile Way, Gilmore Hall 202
Honolulu, Hawaii 96822
Phone: (808) 956-8234 **Fax:** (808) 956-9105
Email: aghashim@ctahr.hawaii.edu
Website: www2.ctahr.hawaii.edu/ctahr2001
Conducts research and educational programs that support tropical agricultural systems that foster viable communities, a diversified economy, and a healthy environment.

Concurrent Analytical, Inc.
Christian L. Schoen, President
150 Hamakua Dr., PMB 702
Kailua, Hawaii 96734
Phone: (808) 263-6387 **Fax:** (877) 218-4010
Email: info@concana.com
Website: www.concana.com
In partnership with the Microanalytical Instrumentation Center at Iowa State University, Concurrent Analytical, Inc. has commercialized the RamanprobesTM technology. This technology has been developed through funding by the National Defense Center of Excellence for Research in Ocean Sciences (CEROS), Defense Advanced Research Projects Agency (DARPA), as well as private investment and commercial sales.

Connect Imaging, Inc.
Philip Manly
850 W. Hind Drive, #116
Honolulu, Hawaii 96821
Phone: (808) 373-7048 **Fax:** (808) 373-7017
Email:
Website: www.connectimaging.com
Specializes in developing software for picture archiving and communication systems; recently introduced new software for use with digital mammography systems from Fujifilm Medical Systems.

Convergence CT
Bradley Mossman, Vice President, Global Analytics
1132 Bishop Street, Suite 2302
Honolulu, Hawaii 96813
Phone: (808) 536-3040 **Fax:** (808) 536-3047
Email: bmossman@convergencect.com
Website: www.convergencect.com
Develops innovative solutions based on the convergence of clinical data and advanced information technology resulting in significantly improved efficiencies for the clinical trial planning and recruitment processes and pharmaceutical market research.

Cordon Technologies, LLC
William Meyer, Managing Member
PO Box 180247
Hawaii National Park, Hawaii 96718
Phone: (808) 938-2439 **Fax:**
Email: bill@cordonllc.com
Website: www.cordonllc.com

Cordon Technologies develops and licenses proprietary methods and intellectual property pertaining to sustainable agriculture and renewable energy in isolated economies. Cordon's first operation is on the Big Island of Hawaii and specifically addresses sustainable ranching, farming and forestry operations joined together to produce construction materials, carbon sequestration, animal and fish feed, premium beef, alternative energy and renewable bio-fuels - all while improving the natural ecology of the environment. Cordon utilizes synergies among its subsidiary companies to insure that every entity has the infrastructure it needs to prosper, and that all feedstocks are provided as well as a use for every by-product. Cordon is sustainable food, energy, bio-fuels, jobs and local economic development.

County of Hawaii, Department of Research & Development
Jane Testa, Director
25 Aupuni Street, Room 109
Hilo, Hawaii 96720
Phone: (808) 961-8366 **Fax:** (808) 935-1205
Email: jtesta@co.hawaii.hi.us
Website: www.hawaii-county.com/directory/dir_research.htm
The Department provides proactive leadership to enhance the quality of life and sustainability of Hawaii Island's communities in the areas of agriculture, tourism, energy, economic development, film, community development, and information resources.

County of Kauai, Office of Economic Development
Beth Tokioka, Director
4444 Rice Street, Suite 200
Lihue, Hawaii 96766
Phone: (808) 241-6390 **Fax:** (808) 241-6399
Email: btokioka@kauai.gov
Website: www.kauai.gov/OED
The Office of Economic Development interfaces with business and community leaders as well as other government programs to enhance Kauai's economic development activities.

County of Maui, Office of the Mayor
Deidre Tegarden, Economic Development Coordinator
2200 Main Street, Suite 305
Wailuku, Hawaii 96793
Phone: (808) 270-7710 **Fax:** (808) 270-7995
Email: deidre.tegarden@mauicounty.gov
Website: www.mauicounty.gov/mayor/economic
Office of Economic Development works in partnership with the community, business and government sectors to strengthen and diversify the economy by supporting existing businesses and by assisting in the attraction, development and expansion of new businesses.

Covance
Jon Ruckle, M.D., Medical Director
500 Ala Moana Boulevard, Suite 400
One Waterfront Plaza
Honolulu, Hawaii 96813
Phone: (808) 441-6327 **Fax:** (808) 592-2638
Email: jon.ruckle@covance.com
Website: www.covance.com; www.testwiththebest.com
Conducts Phase I-IV human clinical trials for the biopharmaceutical industry through its nationwide network of clinical trial facilities.

Cyanotech Corporation
Gerald R. Cysewski, President and CEO
73-4460 Queen Kaahumanu Highway, Suite 102
Kailua-Kona, Hawaii 96740
Phone: (808) 326-1353 **Fax:** (808) 329-4533
Email: gcysewski@cyanotech.com
Website: www.cyanotech.com
The world's leader in microalgae technology. Produces high-value products including BioAstin® Natural Astaxanthin and Hawaiian Spiraling Pacifica® - all natural, functional nutrients that enhance human health and nutrition.

Dawson Group, Inc.
Christopher Dawson, Director
3375 Koapaka Street, Suite B-200
Honolulu, Hawaii 96819
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Website: www.dawson8a.com
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Department of Agriculture, Quality Assurance Division
John M. Ryan, Administrator
1851 Auiki Street
Honolulu, Hawaii 96819-3100
Phone: (808) 832-0705 **Fax:** (808) 832-0683
Email: hdoa.info@hawaii.gov

Website: www.hawaiiag.org/hdoa/qad.htm
(1) Conducts fee-for-service third party certification and audits for: seeds and propogative materials; good agricultural handling and manufacturing practices; quality, condition and grade of fruits, vegetables, coffee, nuts, seafood, eggs, animal feed, meat, processed foods, flowers, and foliage; origin; and, GMO status for export products. Develops and promulgates official grade standards. (2) Maintains the State of Hawaii physical standards for mass, volume, and length that are traceable to the National Standards, and certifies standards for industry and enforcement.

Department of Business, Economic Development & Tourism
Theodore E. Liu, Director
P.O. Box 2359
Honolulu, Hawaii 96813
Phone: (808) 587-2690 **Fax:** (808) 586-2377
Email: ecorbin@dbedt.hawaii.gov
Website: www.dbedt.hawaii.gov
State agency whose core mission is to strengthen and diversify Hawaii's economy, lead business development efforts, attract new businesses and investment, and document Hawaii's economic development.

Dole Food Company Hawaii
Daniel Nellis, Operations Director
1116 Whitmore Avenue
Wahiawa, Hawaii 96786
Phone: (808) 621-3200 **Fax:** (808) 621-7410
Email: dan_nellis@na.dole.com
Website: www.dole.com
Diversified agricultural company.

EA Engineering, Science, and Technology, Inc.
Warren Hall
1221 Kapiolani Boulevard, Suite 1030
Honolulu, Hawaii 96814
Phone: (808) 589-1455 **Fax:** (808) 589-1575
Email: whall@eaest.com
Website: www.eaest.com
A successful integrator of science, engineering, and technology to solve clients' environmental business challenges.

Earth Tech, Inc.
Robin Cababa, VP, Pacific Region
841 Bishop Street, Suite 500
Honolulu, Hawaii 96813
Phone: (808) 523-8874 **Fax:** (808) 523-8950
Email: robin.cababa@earthtech.com
Website: www.earthtech.com
Earth Tech is a global provider of consulting, engineering and construction services for the transportation, water/wastewater, facilities and environmental markets. Serving commercial, industrial and government clients worldwide, the company employs 6,500 people in over 130 offices in 16 countries.

East-West Medical Research Institute
1585 Kapiolani Boulevard, Suite 1500
Honolulu, Hawaii 96814
Phone: (808) 523-3978 **Fax:** (808) 523-5115
Email:
Website:

Economic Development Alliance of Hawaii, Inc.
Paula Helfrich, Executive Director
737 Bishop Street, Suite 2040
Honolulu, Hawaii 96813
Phone: (808) 521-3611 **Fax:** (808) 536-2281
Email: paula.helfrich@edahawaii.org
Website:
A 501(c)3 Hawaii Corporation whose mission is to create shared prosperity and opportunity through responsible economic development across the Hawaiian Islands. EDAH and its development partners have over 20 years of experience in initiating, managing, and providing quantifiable results in job creation, business attraction and rural based economic development.

Enterprise Honolulu
Mark Ritchie, Managing Director, Targeted Business Development
737 Bishop Street Mauka Tower, Suite 2040
Honolulu, Hawaii 96813
Phone: (808) 521-3611 **Fax:** (808) 536-2281
Email: mritchie@enterprisehonolulu.com
Website: www.enterprisehonolulu.com
Non-profit economic development organization funded by Oahu's private and public sectors that is focused on attracting, retaining and growing businesses throughout Hawaii. Works to improve Hawaii's business climate and global competitiveness, in collaboration with government agencies and other business associations.

Environet, Inc.
Neil Ledbetter, M.S., Ch.E, Vice President
650 Iwilei Road, Suite 204
Honolulu, Hawaii 96817
Phone: (808) 833-2225 **Fax:** (808) 833-2231
Email: enetmail@environethawaii.com
Website: www.environethawaii.com
As a locally owned and operated environmental consulting, planning, and engineering firm in Hawaii since 1995, Environet has served government clients and private industries in Hawaii, Guam, Saipan, Yap, Johnston Atoll, Okinawa, and Korea for over 10 years. We specialized in hazardous waste investigations, environmental planning, risk assessments, regulatory compliance programs, pollution prevent, and remedial design. We have participated in long-term environmental monitoring efforts and bioremediation research for the U.S. Navy and the U.S. Army.

Environmental Biotech of Hawaii
Jackie Anderson, Vice President
549 Halemaumau Street, #C-2
Honolulu, Hawaii 96821
Phone: (808) 589-3241 **Fax:** (808) 591-0689
Email: hawaii@environmentalbiotech.com
Website: www.environmentalbiotech.com
Bioremediation of grease traps and drain lines.

EnviroServices & Training Ctr., LLC
Michael Yee, Member/Manager
505 Ward Avenue, #202
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Website: www.gotoetc.com
Comprehensive environmental services.

Genentex
Patrick Suel, Founder & CEO
1188 Bishop Street, Suite 610
Honolulu, Hawaii 96813
Phone: (650) 303-5801 **Fax:** (650) 529-3427
Email:
Website: www.genentex.com
A biotechnology company founded with a mission to improve crustacean aquaculture through the development of advanced and innovative gene transfer technologies.

Goodsill Anderson Quinn & Stifel LLP
1099 Alakea Street, Suite 1800
Honolulu, Hawaii 96813
Phone: (808) 547-5600 **Fax:** (808) 547-5880
Email:
Website: www.goodsill.com
Goodsill Anderson Quinn & Stifel has served the legal and business needs of clients in Hawaii and around the world since 1878. With more than 70 attorneys located in downtown Honolulu, Goodsill offers knowledge and experience in all aspects of civil law, including business and securities law, banking, real estate, tax, trusts and estates, public utilities, immigration, international transactions and civil litigation. In addition, Goodsill attorneys have expertise in such specialized areas as mergers and acquisitions, environmental law, antitrust, aviation, admiralty, international trade, labor and employment, media, technology, start-ups, venture financing and health law.

Haumea Biosciences, Inc.
Kenneth Ward
1319 Punahou Street, Room 824
Honolulu, Hawaii 96826
Phone: Fax:
Email:
Website:
Haumea Bioscienes, Inc. will develop a new generation of diagnostic and therapeutic products for common diseases that afflict women. Products are based on the systematic and comprehensive deciphering of the molecular biology underlying serious gynecologic diseases using proven genetic tools.

Hawaii Agriculture Research Center
Stephanie A. Whalen, President & Director
99-193 Aiea Heights Drive, Suite 300
Aiea, Hawaii 96701
Phone: (808) 486-5310 **Fax:** (808) 486-5020
Email: swhalen@harc-hspa.com
Website: www.hawaiiag.org/harc
Laboratory and field facilities for agricultural biotechnology, crop and processing research services.

Hawaii Biotech
Elliot Parks, President & CEO
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Email: eparks@hibiotech.com

Website: www.hibiotech.com
Hawaii Biotech, Inc. focuses on development of infectious disease vaccines.

Hawaii Business and Entrepreneur Acceleration Mentors (HiBEAM)
Rachel Ogdie, Executive Director
Ali'i Tower, Suite1800
1099 Alakea Street
Honolulu, Hawaii 96813
Phone: (808) 547-5735 **Fax:** (808) 547-5880
Email: rachel@hibeam.org
Website: www.hibeam.org
Non-profit Organization that helps launch and build promising early stage Hawaii technology companies by providing expert professional advice and access to funding sources.

Hawaii Chitopure
Keiki-Pua S. Dancil, Ph.D., Executive Vice President
4429 Mala'ai Street, #104
Honolulu, Hawaii 96818
Phone: (808) 423-6241 **Fax:** (808) 423-6242
Email: kd@chitopure.com
Website: www.chitopure.com
A biomaterials company specializing in the US manufacture of ultra-pure chitosan and chitosan derivatives for a variety of medical applications.

Hawaii Clinical Research Center
Denis Mee-Lee, President
1286 Queen Emma Street
Honolulu, Hawaii 96813
Phone: (808) 538-2800 **Fax:** (808) 536-2024
Email: ann.borce@hawaiiclinicalresearch.com
Website: hawaiiclinicalresearch.com/about-history
The Hawaii Clinical Research Center was established by Dr. Denis Mee-Lee (CV) in 1989 to conduct specialized research within the diverse ethnic population of Hawaii. The Center has conducted more than 100 Phase I, II, III, and IV studies with compounds covering a wide range of indications. Although HCRC focus was traditionally with CNS medication, its capacity has broadened to incorporate inpatient and outpatient trials covering a wide range of therapeutic areas and indications.

Hawaii Community Development Authority (HCDA)
Anthony J.H. Ching, Executive Director
677 Ala Moana Boulevard, Suite 1001
Honolulu, Hawaii 96813
Phone: (808) 587-2870 **Fax:** (808) 587-8150
Email: contact@hcdaweb.org
Website: www.hcdaweb.org
The Hawaii Community Development Authority (HCDA) was created by the 1976 Hawaii State Legislature to facilitate the timely planning, regulation and development of underutilized areas in the State of Hawaii. HCDA's mission is to ensure that the Kaka'ako Community Development District (an area located in urban Honolulu on the Island of Oahu) and the Kalaeloa Community Development District (an area located in West Oahu) are invigorated and transformed into dynamic communities that will accommodate a mix of people with a wide spectrum of activities and commerce—places where people live, work, visit, learn and play. HCDA works to bring together private enterprise and government to facilitate redevelopment and to establish Kaka'ako and Kalaeloa as economically and socially viable communities that can provide a range of public benefits. Infrastructure and public facilities are being developed by the HCDA to spur new housing opportunities, community facilities, and increase economic opportunities. Kaka`ako is home to a developing medical and life sciences industry. The John A. Burns School of Medicine, part of the University of Hawaii system, is located in Kaka'ako. The Cancer Research Center of Hawaii, also part of the University of Hawaii system, and other life science developments are also planned to be located in Kaka`ako.

Hawaii Crop Improvement Association
Alicia Maluafiti, Executive Director
91-1012 Kahi'uka Street
Ewa Beach, Hawaii 96706
Phone: (808) 224-3648 **Fax:**
Email: director@hciaonline.com
Website: www. hciaonline.com
The HCIA is a membership organization that supports the growth and development of the seed industry, agriculture and agricultural sciences in Hawaii through advocacy, outreach education, and science-based information. We grow the future of worldwide agriculture in Hawaii.

Hawaii Farm Bureau Federation
Brian Miyamoto, Interim Executive Director
2343 Rose Street
Honolulu, Hawaii 96819
Phone: (808) 848-2074 **Fax:** (808) 848-1921
Email: atakemoto@hfbf.org
Website: www.hfbf.org
Non-profit organization of farming families united for the purpose of formulating action to ensure the future of agriculture thereby promoting the well-being of farming and the State's economy.

Hawaii Institute of Marine Biology
Jo-Ann Leong, Director
46-007 Lilipuna Road
Kaneohe, Hawaii 96744
Phone: (808) 236-7401 **Fax:** (808) 236-7443
Email: joannleo@hawaii.edu
Website: www.hawaii.edu/HIMB/
HIMB supports research in biosensor development particularly in bioacoustics, gene identification for stress responses and immune protection in coral reef organisms, marine and freshwater aquaculture with emphasis on the physiology, nutrition, and endocrinology of fish, and the behavior and population dynamics of fish. The laboratory has high throughput genomics sequencing capabilities and an LC-Mass-Spectrophotometer. Investigators have access to coral reef environments at the coastal margins of Oahu and the open ocean.

Hawaii International Environmental Services, Inc.
Mayumi Randall, President
70 Kihapai Street
Kailua, Hawaii 96734
Phone: (808) 263-1787 **Fax:** (808) 263-0860
Email: mayumi@hiesinc.com
Website: www.hiesinc.com
Provides environmental consulting, engineering services and data management with GIS (Geographic Information System) to Hawaii business and government agencies.

Hawaii Island Economic Development Board, Inc.
Jacqui Hoover, Executive Director
Hawai'i Innovation Center at Hilo 117 Keawe Street, Suite 107
Hilo, Hawaii 96720-2811
Phone: (808) 935-2180 **Fax:** (808) 935-2187
Email: markmcguffie@hiedb.org
Website: www.hiedb.org
A networking business organization that specializes in facilitating federal resource program and implementation of economic development projects. Provides information and assistance for businesses and industries and serves as key liaison to federal, state, county and private sector resources in financing, business planning, permitting, legal advice and other business services.

Hawaii Natural Energy Institute, University of Hawaii
Richard Rocheleau, Director
1680 East West Road POST 109
Honolulu, Hawaii 96822
Phone: (808) 956-8346 **Fax:** (808) 956-2336
Email: rochelea@hawaii.edu
Website: www.hnei.hawaii.edu
The Hawaii Natural Energy Institute (HNEI) was established by the Legislature in 1974 to develop renewable energy resources and technologies to reduce the state's dependence on fossil fuels. Today, with funding from private industry and state and federal agencies, HNEI conducts basic and applied research on a wide range of topics to address society's critical energy and environmental problems. Current research includes hydrogen and fuel cells, sea-bed methane hydrates, fuels and high value products derived from biomass and engineered microbial systems for fuels and biodegradable polymers, photovoltaics, and batteries and electric vehicles. The institute works closely with the Hawaii Department of Business, Economic Development & Tourism (DBEDT), industry, and federal funding agencies to develop public/private partnerships for the deployment and demonstration of fuel cell and renewable energy technologies.

Hawaii Papaya Industry Association
Kenneth Y. Kamiya, President
190 Kamehameha Avenue, Room 1 P.O. Box 6959
Hilo, Hawaii 96720
Phone: (808) 969-1160 **Fax:** (808) 969-1781
Email: papayas@aloha.net
Website: www.hawaiipapaya.com
The organization works cooperatively for the improvement and orderly development of the Hawaii papaya industry through research and development; marketing and promotion; and education and cooperation on a non-partisan basis.

Hawaii Science & Technology Council
Lisa H. Gibson, President
733 Bishop Street, Suite 2900
Honolulu, Hawaii 96813
Phone: (808) 536-4670 **Fax:** (808) 536-4680
Email: lgibson@hiscitech.org
Website: www.hiscitech.org
The Hawaii Science & Technology Council is a private tax-exempt 501©6 industry association with a 28-member board. HIScitech serves Hawaii Companies engaged in ocean sciences, agricultural biotechnology, astronomy, defense aerospace, biotech/life sciences, information & communication technology, energy, environmental technologies and creative media.

Hawaii Strategic Development Corporation
Karl Fooks, President
P.O. Box 2359
Honolulu, Hawaii 96813
Phone: (808) 587-3830 **Fax:** (808) 587-3832
Email: karl.fooks@dbedt.hawaii.gov
Website: www.htdc.org/hsdc
State agency created in 1990 to promote economic development and diversification in conjunction with private enterprise; works to develop a sustainable venture capital industry in Hawaii which will stimulate the growth of new businesses.

Hawaii Undersea Research Laboratory, University of Hawaii
John C. Wiltshire, Director
University of Hawaii
1000 Pope Road, MSB 303
Honolulu, Hawaii 96822
Phone: (808) 956-6042 **Fax:** (808) 956-2136
Email: johnw@soest.hawaii.edu
Website: www.soest.hawaii.edu/HURL
Research institute established to study deep water marine processes in the Pacific Ocean. Provides access to deep ocean habitats for discovering new compounds. Operates deep diving submersibles.

Hawaii Venture Capital Association (HVCA)
Bill Spencer, President
805 Kainui Drive
Kailua, Hawaii 96734
Phone: (808) 262-7329 **Fax:** (808) 263-4982
Email: windcon@hawaii.rr.com
Website: www.hvca.org
Organization that seeks to foster entrepreneurial development through networking, education, and access to venture capital.

Hawaiian Commercial & Sugar
Steve Holaday, Plantation General Manager
P.O. Box 266
Puunene, Hawaii 96784
Phone: (808) 877-6902 **Fax:** (808) 871-2149
Email: sholaday@hcsugar.com
Website: www.hcsugar.com
Largest producer of raw sugar in Hawaii. Producer of Maui brand natural food grade sugars.

High Health Aquaculture, Inc.
James Wyban, President
73-4460 Kaahumanu Highway, #117
Kailua-kona, Hawaii 96740
Phone: (808) 329-6018 **Fax:** (808) 329-6018
Email: jim@SPFgenetics.com
Website: www.SPFgenetics.com
World's leading breeder and supplier of certified pathogen free (SPF) shrimp broodstock. HHA owns the world's most diverse genetic collection of SPF shrimp including: P. vannamei, P. stylirostris, P. monodon, and P. japonicus, which are four major species, farmed worldwide. HHA uses advanced scientific breeding to continually improve the commercial performance of its pedigree shrimp stocks.

High Technology Development Corporation
Yuka Nagashima, CEO
2800 Woodlawn Drive, Suite 100
Honolulu, Hawaii 96822
Phone: (808) 539-3806 **Fax:** (808) 539-3611
Email: ceo@htdc.org
Website: www.htdc.org
A state agency established by the Hawaii State Legislature in 1983 to facilitate the development and growth of Hawaii's commercial high technology industry.

Hoana Medical, Inc.
Patrick Sullivan, President & CEO
828 Fort Street Mall, Suite 620
Honolulu, Hawaii 96813
Phone: (808) 523-5410 **Fax:** (808) 523-5480
Email: info@hoana.com
Website: www.hoana.com
Medical device company that collects patient vital signs using the company's revolutionary, patented PSA

(Passive Sensory Array) technology. Hoana's PSA technology has multiple applications throughout the continuum of healthcare; from the hospital to the home.

Ho'okele Personal Health Planners, LLC
Dew-Anne Langcaon, CEO
1360 South Beretatnia Street, Suite 305
Honolulu, Hawaii 96814
Phone: (808) 457-1655 **Fax:** (808) 535-1547
Email: healthplanners@hookelehealth.com
Website: www.hookelehealth.com
Ho'okele Personal Health Planners are RNs, pharmacists, and therapists who work together with Physician Advisors to help clients navigate their way through the complex healthcare system.

HR Biopetroleum, LLC
C. Barry Raleigh, Managing Director
64 Moaniala Place
Honolulu, Hawaii 96821
Phone: Fax:
Email: rleigh@hawaii.edu
Website:
HR Biopetroleum is a Hawaii-based alternative energy company devoted to developing the technology for producing biodiesel from micro algae.

InCode BioPharmaceutics, Inc.
Bill St John,
50 Puu Anoano Road #1005
Lahaina, Hawaii 96761
Phone: (808) 268-9803 **Fax:** (808) 661-3129
Email: stjohn2@mac.com
Website:
InCode Pharmaceutics has developed novel recombinant C3 complement proteins for the treatment of a broad range of autoimmune diseases. These candidates contain key segments of Cobra Venom Factor responsible for the depletion of serum complement. The company is conducting research and development and establishing partnerships to bring these new therapies to the pharmaceutical market.

Integrated Coffee Technologies, Inc.
John I. Stiles, CEO & Chief Scientist
P.O. Box 1070
Waialua, Hawaii 96791
Phone: (808) 637-9948 **Fax:** (808) 637-9643
Email: jstiles@integratedcoffee.com
Website: www.integratedcoffee.com
Applying biotech to plantation beverage crops such as coffee and tea.

John A. Burns School of Medicine
Jerris R. Hedges, MD, MS, MMM, Dean
651 Ilalo Street, MEB
Honolulu, Hawaii 96813-5534
Phone: (808) 692-0881 **Fax:** (808) 692-1247
Email: jerris@hawaii.edu
Website: www.jabsom.hawaii.edu
Most culturally and ethnically diverse medical school in the nation. Conducts advanced biomedical research with concentration in tropical medicine and emerging infectious diseases, neuroscience, developmental and reproductive biology and health disparities. Trains biomedical scientists and health professionals in medicine, public health, medical technology and speech pathology audiology.

Kauai Economic Development Board, Inc.
Mattie Yoshioka, President & CEO
4290 Rice Street
Lihue, Hawaii 96766
Phone: (808) 245-6692 **Fax:** (808) 246-1089
Email: myoshioka@kedb.com
Website: www.kedb.com
A 501(C)(3) non-profit organization established in 1984. Explores ways to diversify Kauai's economy, and create and strengthen industries that can flourish on Kauai. Focus includes science and technology, diversified agriculture and aquaculture, health and wellness, renewable energy, visitor industry support, education and workforce development.

Kauai Ethanol LLC
William MaLoney, Director
PO Box 156
Kaumakani, Kauai 96747
Phone: (808) 335-5337 **Fax:** (808) 335-6424
Email: gnr@gayandrobinson.com
Website:
Ethanol plant that will use sugar as a feedstock.

Kolohala Ventures
Michael T. Pfeffer, Managing Partner
900 Fort Street Mall, Suite 1800
Honolulu, Hawaii 96813
Phone: (808) 447-9248 **Fax:** (808) 546-4325
Email: info@kolohala.com
www.kolohala.com

Website: www.kolohala.com
Kolohala Ventures is a Hawaii-focused venture firm that provides technology companies with financing and support throughout the business life-cycle. Kolohala Ventures focuses on providing investors with superior due diligence and access to the highest quality investment opportunities. In addition, the company invests primarily in Qualified High Technology Businesses (QHTB) to leverage Act 215 and provide investors with significant tax advantages and/or enhanced equity.

Kona Bay Marine Resources, Inc.
Brian Goldstein, President
3465 Waialae Avenue, Suite 240
Honolulu, Hawaii 96816
Phone: (808) 732-1500 **Fax:** (808) 732-7665
Email: bgoldstein@konabaymarine.com
Website: www.konabaymarine.com
Advanced technology in the production of SPF shrimp brood stock and hard clam seed.

Kuehnle AgroSystems Co LLC
Adelheid R. Kuehnle, President
Manoa Innovation Center 2800 Woodlawn Drive, Suite 281
Honolulu, Hawaii 96822-1843
Phone: (808) 753-2693 **Fax:** (808) 988-3170
Email: gordon@kashawaii.com
Website:
Conducts research and development in magnetophoresis, a process that addresses the shortcomings of existing macromolecule transfer technologies used for medical, agricultural and aquaculture applications.

Manoa Biosciences
Stefan Moisyadi, Founder & Scientist
3375 Koapaka Street, Suite G314
Honolulu, Hawaii 96819
Phone: (808) 692-1525 Fax: (808) 692-1966
Email: moisyadi@hawaii.edu
Website:
Global IP Estimator generates immediate cost estimates for patent, trademark and design applications worldwide. Created for Intellectual Property practitioners, this unique program offers a simple, effective, economical way to generate cost estimates. It gives you current, accurate, detailed reports quickly and in a professional format that is easy to follow and read. Using Global IP Estimator can save up to 95% of the time it usually takes to do foreign application estimates, even with multiple country applications.

Marine AgriTech, Inc.
Thomas Zhuang, Vice President
1188 Bishop Street, Suite 1010
Honolulu, Hawaii 96813
Phone: (808) 295-8878 **Fax:** (808) 526-9411
Email: tzhuang@marineagritech.com
Website: www.marineagritech.com
Biotechnology research and development business specializing in the molecular biological engineering of saltwater tolerant plants, phytoremediation systems, and marine farming techniques.

Maui Economic Development Board, Inc.
Jeanne Unemori Skog, President/CEO
1305 N. Holopono St., Suite 1
Kihei, Hawaii 96753
Phone: (808) 875-2336 **Fax:** (808) 879-0011
Email: skog@medb.org
Website: www.medb.org
The Maui Economic Development Board (MEDB) is a 501(c)(3) not-for-profit corporation established in 1982 with a focus on diversifying Maui's economy. In 1981, Maui County's economic dependence on agriculture and tourism raised concerns about our community's vulnerability to forces we could not control. Our government, business, community leaders came together to explore approaches Maui could take to strengthen and diversity our economy. The consensus of those participants was that Maui's economic future would benefit by developing a high technology sector. As a result, MEDB was formed in 1982 to assist the County of Maui in pursuing this high tech future. Today, MEDB partners with the private, public and nonprofit sectors at the local and national levels to achieve our goals. Our programs-which are founded on a respect for our culture and precious environment-assist growth industries, educate and train our residents for new career pathways, and build consensus in addressing our community's challenges and opportunities.

Maui Ethanol LLC
William Maloney, Managing Director
P.O. Box 330100
Kahului, Hawaii 96733
Phone: (206) 324-3656 **Fax:** (206) 324-3565
Email: wmaloney@aol.com
Website:
Biorefinery for the conversion of agricultural biomass to renewable energy.

Maui High Performance Computing Center
Gene Bal, Executive Director
550 Lipoa Parkway
Kihei, Maui, Hawaii 96753
Phone: (808) 879-5077 **Fax:** (808) 879-5018
Email: info@mhpcc.hpc.mil
Website: www.mhpcc.edu
The Maui High Performance Computing Center (MHPCC) is an Air Force Research Laboratory Center managed by the University of Hawaii. MHPCC's tera-scale, High Performance Computing resources showcase a range of technologies, including Linux super-clusters.

Maui Pineapple Company, Ltd.
Gerry Watts, General Manager
P.O. Box 187
Kahului, Hawaii 96722
Phone: (808) 877-3351 **Fax:** (808) 871-0953
Email:
Website: www.mauipineapple.com
Subsidiary of Maui Land and Pineapple Company, Inc. Sole supplier of 100% Hawaiian USA canned pineapple to U.S. supermarkets and other food service suppliers and food processors.

MediKeeper, Inc.
Ryan Tarzy, President
820 Mililani Street, Suite 600
Honolulu, Hawaii 96813
Phone: (858) 486-6007 **Fax:** (858) 536-8125
Email: customerservice@medikeeper.com
Website: www.medikeeper.com
MediKeeper, Inc. operates a subsidiary, Personal Health Labs, in Honolulu, which concentrates on the development of cutting edge personal health technologies, specializing in building and delivering Personal Health Applications.

Mera Pharmaceuticals
Gregory F. Kowal, CEO
73-4460 Queen Ka'ahumanu Highway, Suite 110
Kailua-Kona, Hawaii 96740
Phone: (808) 326-9301 **Fax:** (808) 326-9401
Email: info@merapharma.com
Website: www.merapharma.com
Nutraceutical company with a focus on identifying and producing valuable products from natural sources.

Molecular Bioscience and Bioengineering
Harry Ako, Chair & Researcher
1955 East-West Road AGSCI 218
Honolulu, Hawaii 96822
Phone: (808) 956-2012 **Fax:** (808) 956-3542
Email: hako@hawaii.edu
Website: www2.ctahr.hawaii.edu/depart/mbbe
Develops and applies state-of-the-art techniques of molecular and cellular biology and biotechnology to problems of tropical agriculture and facilitates the transfer of this technology to others in the College, University, State and Pacific Region. Research focuses on environmental biochemistry and biotechnology. Research projects include phytoremediation and bioremediation, metabolomics, marine pollution and toxicology, and analytical and environmental chemistry.

Monsanto Company
Paul Koehler, Manager, Scientific and Community Affairs - Hawaii
P.O. Box 629
Kihei, Hawaii 96753
Phone: (808) 879-4074 **Fax:** (808) 879-0499
Email: paul.h.koehler@monsanto.com
Website: www.monsanto.com
Monsanto Company works with farmers to discover new ways to improve agriculture and is a leading provider of agricultural products and solutions worldwide. The company's farms in Hawaii help develop better-quality seeds that will eventually help farmers produce more abundant and healthier foods, combat insects and diseases, preserve precious farmlands and protect natural resources.

Nanopoint Inc.
Cathy Owen, CEO & President
900 Fort Street Mall Suite A20
Honolulu, Hawaii 96813
Phone: (808) 457-1145 **Fax:** (808) 537-4245
Email: info@nanopointimaging.com

Website: www.nanopointimaging.com
Nanopoint Inc. is a privately-held nano-biotechnology company that is revolutionizing the study and treatment of diseases with its live cell imaging solutions. Nanopoint's products have broad applications to life science research, drug discovery, and biopharmaceutical production as well as other areas where live cell analysis is important.

Nascent Pharmaceuticals, Inc.
Charles P. R. de C. du Mee, Chief Development Officer
401 Kamakee Street, Suite 302 533 Airport Boulevard, Suite 400, Burlingame, California 94010 (650) 373-2185)
Honolulu, Hawaii 96814
Phone: (808) 737-0911 **Fax:** (808) 737-0911
Email: dumeec@pharmdev.com
Website: www.pharmdev.com
Nascent Pharmaceuticals is a privately-held, no research/development only drug firm located in Honolulu and San Francisco.

National Tropical Botanical Garden (NTBG)
Chipper Wichman, Chief Executive Officer and Director
3530 Papalina Road
Kalaheo, Hawaii 96741
Phone: (808) 332-7324 **Fax:** (808) 332-9765
Email: administration@ntbg.org
Website: www.ntbg.org
National Tropical Botanical Garden (NTBG) is a not-for-profit non-governmental institution. Our mission is to enrich life through discovery, scientific research, conservation, and education by perpetuating the survival of plants, ecosystems, and cultural knowledge of tropical regions. NTBG has four gardens and three preserves in the Hawaiian Islands, and a garden in South Forida.

Natural Energy Laboratory of Hawaii Authority
Ronald N. Baird, Chief Executive Officer
73-4460 Queen Kaahumanu Highway, #101
Kailua-Kona, Hawaii 96740
Phone: (808) 329-7341 **Fax:** (808) 326-3262
Email: ronb@nelha.org
Website: www.nelha.org
Provides resources and facilities for energy and ocean-related research, educational, and commercial activities.

NovaSol
Rick Holasek, President, CEO
733 Bishop Street Makai Tower, Suite 2800
Honolulu, Hawaii 96813-4085
Phone: (808) 441-3600 **Fax:** (808) 441-3601
Email: info@nova-sol.com
Website: www.nova-sol.com
NovaSol specializes in the research, engineering development, and productization of next-generation active and passive optical systems. These systems provide coverage of the entire spectrum, from the ultraviolet to the infrared with panchromatic to ultraspectral resolution. NovaSol applies its expertise in sensors, optics, navigation and stabilization, spectral and spatial algorithms, real-time processing, and systems data analysis to produce innovative products in four key technical areas: hyperspectral imaging (HSI), optical communications, miniaturization and data fusion.

Oceanic Institute
Gary E. Karr, Communications, Education, & Training Manager
41-202 Kalanianaole Highway, Suite 9
Waimanalo, Hawaii 96795
Phone: (808) 259-3146 **Fax:** (808) 259-5971
Email: gkarr@oceanicinstitute.org
Website: www.oceanicinstitute.org
A private not-for-profit research and development organization dedicated to marine aquaculture, coastal resource management, and biotechnology.

Oceanit
Jan Sullivan, COO
828 Fort Street Mall, Suite 600
Honolulu, Hawaii 96813
Phone: (808) 531-3017 **Fax:** (808) 531-3177
Email: info@oceanit.com
Website: www.oceanit.com
Established in 1985, Oceanit is Hawaii's largest and most diversified privately-held science and engineering companies with a focus on aerospace, life science, information technology, and engineering consulting. These four areas act as incubators where engineers, scientists, and business experts are brought together in cross-collaborating teams to produce a range of dual-use technologies which are spun off into new ventures. Since 2002, Oceanit's incubator approach has produced two venture funded life science companies, Hoana Medical (www.hoana.com) and Nanopoint

(www.nanopointimaging.com), which have together raised approximately $50 million of venture capital, and one internally funded group called MOSAIC (www.mosaicoptics.com). One of Oceanit's many programs is to deploy a worldwide network of small, low-cost, autonomous optical ground stations to create the world's most advanced Space Situational Awareness (SSA) network. Every year, Oceanit is ranked as one of the top ten "Best Places to Work in Hawaii" by Hawaii Business magazine, and recently won the Pacific Business News' top award "Best in Business" for 2007. Please visit www.oceanit.com for more information.

Office of Technology Transfer & Economic Development, University of Hawaii (OTTED)
Daniel Ishii, Interim Director
2800 Woodlawn Drive, Suite 280
Honolulu, Hawaii 96822
Phone: (808) 539-3817 **Fax:** (808) 539-3833
Email: rcox@hawaii.edu
Website:
OTTED is the technology licensing office for the University of Hawaii (UH) and was organized to help UH researchers commercialize promising new inventions and discoveries and to collaborate with industry research sponsors; to help industry gain access to promising research and new technologies developed at the University of Hawaii; and to promote State-wide economic development through UH's technology transfer programs.

Pacific Biodiesel, Inc.
Bob King, President
40 Hobron Avenue
Kahului, Hawaii 96732
Phone: (808) 877-3144 **Fax:** (808) 877-5030
Email: bking@biodiesel.com
Website: www.biodiesel.com
Manufacturer of Biodiesel fuel from renewable sources.

Pacific Biosciences Research Center, University of Hawaii
Marilyn F. Dunlap, Interim Associate Director
1993 East West Road, Room 215
Honolulu, Hawaii 96822
Phone: (808) 956-8838 **Fax:** (808) 956-4768
Email: director@pbrc.hawaii.edu
Website: www.pbrc.hawaii.edu
Supports interdisciplinary research and training in diverse fields of biology and biomedicine, including cellular and molecular biology of marine organisms, neuro-behavioral biology, conservation and evolutionary biology of marine and terrestrial biota, biotechnology, molecular endocrinology and selected areas of human health. Administers core research support facilitates for electron and confocal microscopy and for molecular biology and genomics to support researchers throughout the university and the state.

Pacific Biotech/Noni Maui
David Backstrom, ND, CEO
810 Haiku Road, Unit 317
Haiku, Hawaii 96708-4801
Phone: (808) 575-9100 **Fax:** (808) 575-9108
Email: david@nonimaui.com
Website: www.nonimaui.com
Currently researching the anti-cancerous compounds found in noni in conjunction with the Cancer Research Center of Hawaii.

Pacific Health Research Institute
Bruce Stevenson, Executive Director & CEO
846 South Hotel Street, Suite 301
Honolulu, Hawaii 96813
Phone: (808) 524-4411 **Fax:** (808) 524-5559
Email: info@phrihawaii.org
Website: www.phrihawaii.org
The Pacific Health Research Institute (PHRI) is an independent, non-profit biomedical research organization dedicated to improving health in Hawaii and around the world. Driven by the values of excellence and innovation, PHRI's outstanding scientists and their research programs focus on a range of health challenges, including obesity, diabetes, aging, cancer, neurodegenerative diseases, and health care delivery. Hawaii's diverse ethnic population, island setting, and unique collaborative environment provide rich resources for PHRI to address health issues on a local, national, and international scale. PHRI's epidemiological, clinical, and health services research directly impact the health and well-being of people worldwide.

Pacific International Center for High Technology Research
Dennis Teranishi, Interim President & CEO
1440 Kapiolani Boulevard, Suite 1225
Honolulu, Hawaii 96814
Phone: (808) 943-9581 **Fax:** (808) 943-9582

Email: dennis.teranishi@pichtr.org
Website: www.pichtr.org
Independent, not-for-profit, applied research and development center.Programs include: Biomass Systems, Biosystems Technology, Environmental Science And Technology, etc. PICHTR also provides administrative services (contract management).

Pacific Research Center for Marine Biomedicine, University of Hawaii
Edward A. Laws, Center Director
1680 East-West Road, POST 105
Honolulu, Hawaii 96822-2327
Phone: (808) 956-6396 **Fax:** (808) 956-5308
Email: elaws@hawaii.edu
Website: www.prcmb.hawaii.edu
Conducts hypothesis-driven, interdisciplinary research on harmful algal blooms, water- and vector-borne diseases, and marine -derived pharmaceuticals and probes.

PanThera Biopharma LLC
Will Alameida, President & CEO
99-193 Aiea Heights Drive Suite 136
Aiea, Hawaii 96701
Phone: (808) 540-4778/(808) 457-1432
Fax: (808) 540-4850/(808) 484-0522
Email: will@sti-hawaii.com
Website: www.pantherabio.com
PanThera Biopharma (PanThera) is a privately held pharmaceutical company established in 2006 as a subsidiary of STI Industries (STI), a Honolulu-based dual-use technology corporation. Panthera's mission is focused on addressing the urgent need for new drugs to combat emerging infectious diseases and potential biowarfare agents. PanThera's proprietary technologies combined with its enabling capabilities in structure-based drug design, medicinal chemistry and high throughput screening will result in the development and delivery of safe, effective drugs against life-threatening diseases.

Paradise Patent Services, Inc.
George E. Darby, JD, MBA, Registered Patent Attorney, President
P O Box 893010
Mililani, Hawaii 96789-3010
Phone: (808) 626-1300 **Fax:** (808) 626-1350
Email:
Website:
Concentrating in Biotech, Medical Devices, and Software.

Peletex, Inc.
Jeff Reiss, CEO
P.O. Box 5070
Kahului, Hawaii 96733
Phone: (808) 249-0903 **Fax:** (808) 242-9149
Email: jreiss@peletex.com
Website: www.peletex.com
Peletex has patented and is developing a superior new method of Air Filtration for the following markets: (1) Medical Isolation and Surgery Rooms, (2) Biotechnology, (3) Cleanrooms, (4) Chemical/Biological Hazard Remediation for Military, Homeland Security and 1st Responders, (5) Nanotechnology and (6) Medical Waste Incineration.

Pioneer Hi-Bred International, Inc
Cindy Goldstein, Business and Community Outreach Manager
P.O. Box 520
Waialua, Hawaii 96791
Phone: (808) 637-0100 **Fax:** (808) 637-1611
Email: cindy.goldstein@pioneer.com
Website: www.pioneer.com
Pioneer Hi-Bred International Inc produces seed crops and inoculants. Hybrid seed corn is our largest product. Pioneer also produces soybean, alfalfa, sunflower, sorghum and other seed crops. In Hawaii corn seed is about 95% of what is produced. Depending on the year, 40 to 50% of the seed is biotech products such as Bt corn. Our research operations are on Kauai at the Waimea Research Center,Waimea Kauai. Our parent seed production facilities are located in Waialua on Oahu and Kekaha on Kauai.

Queen's Medical Center, The
Arthur A. Ushijima, President
1301 Punchbowl Street
Honolulu, Hawaii 96813
Phone: (808) 547-4688 **Fax:** (808) 537-7990
Email: aushijima@queens.org
Website: www.queens.org
Private, non-profit, acute care medical facility. Serves as the leading medical referral center in the Pacific Basin. Supports Phase I-IV clinical trials.

Rincon Pharmaceuticals, Inc.
Bruce Steel, CEO
3030 Bunker Hill Street, Suite 318
San Diego, California 92109
Phone: (858) 736-3100 **Fax:** (858) 736-3101
Email: info@rinconpharma.com
Website:
Rincon's mission is to dramatically increase the availability and affordability of recombinant protein therapeutics, such as monoclonal antibodies, by using eukaryotic algae as a production system.

Sea Grant College Program, University of Hawaii
E. Gordon Grau, Director
2525 Correa Road, HIG 238
Honolulu, Hawaii 96822
Phone: (808) 956-7031 **Fax:** (808) 956-3014
Email: seagrant@hawaii.edu
Website: www.soest.hawaii.edu/seagrant/
The University of Hawaii Sea Grant Program supports an innovative program of research, education, and outreach services directed to the improved understanding and stewardship of marine and coastal resources of the state, region, and nation. Hawaii Sea Grant is a partnership of the University, the National Oceanic and Atmospheric Administration and the State of Hawaii that is facilitated by strong linkages with the 32 Sea Grant programs across the nation and affiliations throughout the Pacific.

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Seth M. Reiss, Principal Attorney
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Law Firm concentrating on all aspects of Intellectual Property and Internet Law and Commercial Litigation.

Shaw Environmental & Infrastructure, Inc.
Michael Coyle, Office Director
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Phone: (808) 840-2016 **Fax:** (808) 839-0339
Email: michael.coyle@shawgrp.com
Website: www.shawgrp.com
Leader in Environmental Management, remediation, infrastructure, civil works, and consulting.

STI Medical Systems, Inc.
Will Alameida, Senior Vice President
733 Bishop Street Pacific Guardian Center, Suite 3100
Honolulu, Hawaii 96813
Phone: (808) 540-4778 **Fax:** (808) 540-4850
Email: will@sti-hawaii.com
Website: www.sti-hawaii.com
STI Medical Systems has developed a new modality in the diagnosis and treatment of cancer, using the company's proprietary HyperSpectral Diagnostic Imaging (HSDI) technology to detect cancer at the cellular level.

Syngenta Seeds, Inc.
Michael Austin, Syngenta Seeds Oahu Station Manager
P.O. Box 8 94-880 Kunia Road
Kunia, Hawaii 96759
Phone: (808) 688-1477 **Fax:** (808) 688-1479
Email: Mike.Austin@syngenta.com
Website: www.syngenta.com
Bringing corn hybrids and soybeans to farms that can withstand diverse environments, pest and disease outbreaks, and changing cultural practices. They recognize that yield is the number one selection criteria for new corn hybrids.

Synthetic Technology Corp. (SYNTEK)
Mark Hagadone, Ph.D., FACFE, President / CEO
3615 Harding Avenue, Suite 308
Honolulu, Hawaii 96816
Phone: (808) 735-0422 **Fax:** (808) 735-0047
Email: hagadone@INALAB.com
Website: www.inalab.com
Development of fine biochemical products, produced entirely in Hawaii and sold to an ever-expanding global market. Research and development strategy targets natural marine biochemical products/metabolites never before synthesized or isolated.

Technology Partners
Roger J. Quy, General Partner
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Palo Alto, California 94301
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Email: roger@technologypartners.com
www.technologypartners.com
Website: www.technologypartners.com
Founded over 20 years ago as a private venture capital firm, Technology Partners manages a total of more than $400 million of investment capital. Technology Partners

teams with visionary entrepreneurs to build successful new companies. We serve principally as a lead investor and business advisor to both Life Science and Cleantech companies.

Tetra Tech EM, Inc.
Laura Newman, Operations Manager
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Phone: (808) 441-6600 **Fax:** (808) 836-1689
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Application of biotechnologies to solve environmental contamination problems.

Tissue Genesis Inc.
Rex Chang, Director of Business Development
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Honolulu, Hawaii 96813
Phone: (808) 539-9331 **Fax:** (808) 539-9345
Email: rchang@tissuegenesis.com
Website: www.tissuegenesis.com/
Tissue Genesis Inc. is a regenerative medicine company engaged in the development of products and therapies for the isolation and therapeutic application of adipose derived regenerative and stem cells. Tissue Genesis Inc. has developed an automated cell separation system for isolating a patient's regenerative cells from adipose. Various therapeutic applications for the adipose derived regenerative cells are under development in the vascular, cardiac, orthopedic, and other fields of medicine.

Tradewind Capital Group
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Tradewind Capital is the investment subsidiary of Island Holdings, Inc. Tradewind Capital engages in asset-management activities and pursues investment opportunities in real estate and private equity.

Trex Advanced Materials
David Kane, General Manager
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Trex Enterprises' Kauai operations, known as Trex Advanced Materials, develops and manufactures advanced ceramic materials for applications in the semiconductor, lightweight optics, ballistics, and other high tech arenas. Trex Advanced Materials is dedicated to frontier materials research, process development and world-class manufacturing. Trex Enterprises' Maui operations specializes in the integration and development of adaptive optics systems, complementary metal oxide semiconductor (CMOS) image sensors, millimeter-wave communication systems, laser projection systems and other innovative sensor and electo-optical systems. In 2005, the organization relocated a larger dedicated R&D facility in Kahului reflecting Trex's growth and commitment to Hawaii.

U.S. Pacific Basin Agricultural Research Center
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Develops basic and applied information to strengthen agriculture in Hawaii and the Pacific Basin.

University Connections, University of Hawaii
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Founded in February, 1999, to help connect entrepreneurs inside and outside of the University of Hawaii with the resources they need to succeed.

URS Corporation
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Website: www.urscorp.com
Services for hazardous waste, petrochemical & water/waste water projects.

Ventana Capital Management LP
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Ventana Capital Management LP is a Venture Capital firm with over 20 years of successful investing experience and over 70 technology portfolio companies. Investing in early-stage High Tech and Life Sciences and innovative energy infrastructure companies. Investors include a global network of financial institutions and multinational corporations.

Water Resources Research Center, University of Hawaii
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Website: www.wrrc.hawaii.edu
Conducts water and environmental research in Hawaii as part of the University of Hawaii and the network of National Institutes for Water Resources.

Worldwide Energy Group
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For corrections, updates or to list a new company, please contact:

Department of Business, Economic Development & Tourism
Strategic Industries Division, Science & Technology Branch
Tel.: (808) 587-3807
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The Hawaii Directory of Sustainable Energy



Businesses
Organizations
Research Institutions
Government Agencies

March 2009

21st Century Technologies
5823 Kalanianaole Hwy
Honolulu, HI 96821
Phone: (808) 373-4559 **Fax:**
Email:
Website: www.21sttech.com
21st Tech is a clean energy integrator that delivers energy solutions and alternative clean technologies from concept to completion to commercial users. We specialize in utility bill and rate analysis, customer specific planning, and installation of high-efficiency state of the art equipment.

AES Hawaii Inc.
91-086 Kaomi Loop
Kapolei, HI 96707-1710
Phone: (808) 682-5330 **Fax:**
Email:
Website: www.aes.com
AES Hawaii, Inc. is the single largest generator of electricity to Hawaiian Electric Company. AES is the only coal-fired plant on Oahu, capable of supplying more than 180 megawatts of electricity or about 20 percent of Oahu's electricity needs.

Alline Trenchless Engineering
Mike Mentikov
94-263 Pupuole Street
Waipahu, HI 96797
Phone: (808) 678-3400 **Fax:** (808) 678-3408
Email: mmentikov@tecorp.org
Website: http://www.tecorp.org
Trenchless Engineering is a general engineering and building contractors company specializing in the trenchless installation replacement repair and rehabilitation of underground utilities (sewer water electrical telecom gas etc.). The company is also involved in hydroelectric consultation design and development.

Aloha Petroleum, Ltd.
1132 Bishop St, 17th Fl.
Honolulu, HI 96813
Phone: (808) 552-9700 **Fax:** (808) 552-9707
Email:
Website: www.alohagas.com
Aloha Petroleum provides fuel for various Federal, State, City and County government agencies in addition to numerous private businesses. We support our fuel marketing activities through the use of company owned and operated delivery vehicles and the operation of fuel storage terminals in Kapolei on Oahu and in Hilo on the Big Island of Hawaii.

Ambient Micro, LLC.
John Langley, Partner
590 Lipoa Parkway, Suite 208
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Phone: (866) 561-4823 **Fax:** (866) 728-9726
Email: sweeker@ambient-micro.com
Website:
Current development efforts: Self-sustaining micro power for unattended ground sensors; tracking tags; and Vehicle Health Monitoring MEMS sensors Energy harvesting power supply for Unmanned Systems Ambient Power Chip (ASIC).

Aquaculture Development Program, Department of Agriculture
Leonard Young, Acting Manager
1177 Alakea Street, Room 400
Honolulu, HI 96813
Phone: (808) 587-0030 **Fax:** (808) 587-0033
Email: info@hawaiiaquaculture.org
Website: www.hawaiiaquaculture.org
To develop a sustainable and profitable commercial aquaculture industry by encouraging a diversity of products, improving management practices and technologies, and providing direct assistance with regulations and permits, disease, marketing and new business development.

Barnwell Industries
Blaise Clay, Executive VP of Water Resources International Inc.
1100 Alakea St, Suite 2900
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Phone: (808) 531-8400 **Fax:** (808) 531-7080
Email: bclay@brninc.com
Website: www.brinc.com
Barnwell Industries, Inc. and its subsidiaries are principally engaged in the business of exploring for, developing, producing, and selling natural gas and oil in Canada, investing in leasehold land in Hawaii, and drilling wells and maintaining water systems in the State of Hawaii.

C. Don Manuel/ Hawaii, Inc
91-1039 Kaniha'alilo Street
Kapolei, HI 96707
Phone: **Fax:**
Email:
Website:
C. Don Manuel/Hawaii, Inc. is an engineering firm whose state-of-the- art and breakthrough engineering designs has enabled his clients to establish their operations in Hawaii at a much lower cost while instilling the value of energy conservation as an important aspect of doing business.

Cades Schutte
Vito Galati, Esq.
1000 Bishop Street, Suite 1200,
Honolulu, HI 96813
Phone: (808) 521-9200 **Fax:** (808) 521-9210
Email: cades@cades.com
Website: www.cades.com
Cades Schutte was founded in 1992 and is one of Hawaii's largest and oldest law firms with approximately 70 attorneys. Cades Schutte is a full service firm with an emphasis on business counseling and offers a wide range of legal services serving local, national and international clients from offices on five floors in the Cades Schutte Building located in downtown Honolulu, as well as from an office in Kailua-Kona on the island of Hawaii.

Carbon Diversion
Neda Najibi, Director Public Relations
85-979 Farrington Avenue, Suite C
Honolulu, HI 96792
Phone: (808) 671-1858 **Fax:** (808) 671-1859
Email:
Website: www.carbondiversion.com
Carbon Diversion, Inc, a high tech waste conversion company, has successfully operated a new technology that can efficiently and effectively convert everything from tree trimmings to agricultural and biomedical waste and tires into valuable carbon products which could reduce landfills by 30%. The revolutionary technology, called Flash Carbonization™, can also be modified for co-generation to produce electricity.

Carlsmith Ball
Dean H. Robb
Pacific Tower, Suite 2200, 1001 Bishop St.
Honolulu, HI 96813
Phone: 523-2500 **Fax:** 523-0842
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Website: www.carlsmith.com
Specializes in Admiralty & Maritime Law in Hawaii & the Pacific, including Law of the Sea matters, & represents marine interests including insurance ship owners/charters cargo marine financing tour operators & developers of ocean resources.

Chevron Products Company - Hawaii
91-480 Malakole St.
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Website: www.chevronenergy.com
Chevron is a collaborative enerprise whose many parts work in concert to deliver vital energy. Acting with a common vision all around the world, our various businesses fulfill our commitment to provide the energy that drives human progress.

City & County of Honolulu, Office of Economic Development
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Clean Fuels Hawaii
2000 Paulele Place
Kihei, HI 96753
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Website: www.cleanfuelshawaii.org
Clean Fuels Hawaii (CFH) is a not-for-profit organization established to promote the development and utilization of clean-burning fuels that can reduce dependence on imported oil, improve the Hawaiian economy, and maintain air quality. CFH has a broad base of support within the energy, environment, health, technology, agriculture, and automotive sectors. These diverse interests are drawn together out of their common interest in developing clean fuels for Hawaii.

Clear Fuels Technology, Inc
Eric Darmstaedter, CFO
99-193 Aiea Heights Drive, Suite 454-A
Aiea, HI 96701
Phone: (808) 221-2570 **Fax:**
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Website: www.clearfuels.com
ClearFuels Technology Inc's mission is simply stated in its name; to produce clear clean renewable fuels such as ethanol, methanol, hydrogen and synthetic gas from sustainable cellulosic biomass using advanced thermochemical technologies.

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Website: www2.ctahr.hawaii.edu/ctahr2001
Conducts research and educational programs that support tropical agricultural systems that foster viable communities, a diversified economy, and a healthy environment.

Concurrent Technologies Corporation
336 Ilimano Street
Kailua, HI 96734
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Website: www.ctc.com
We are an independent, nonprofit, applied scientific research and development professional services organization providing innovative management and technology-based solutions. As a nonprofit organization, CTC conducts impartial, in-depth assessments and delivers reliable, unbiased solutions that emphasize increased quality, enhanced effectiveness, and rapid technology transition and deployment.

County of Hawaii, Department of Research & Development
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Website: www.hawaii-county.com/directory/dir_research.htm
The Department provides proactive leadership to enhance the quality of life and sustainability of Hawaii Island's communities in the areas of agriculture, tourism, energy, economic development, film, community development, and information resources.

County of Kauai, Office of Economic Development
Beth Tokioka, Director
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Lihue, HI 96766
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County of Maui, Office of the Mayor
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Covanta Honolulu Resource Recovery Venture
Robert Webster, Facility Manager
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Phone: (808) 682-2099 **Fax:**
Email: rwebster@covantaenergy.com
Website: www.honoluluhpower.com
Covanta is a world leader in the development and operation of large-scale Energy-from-Waste (EfW) or waste-to-energy (WTE) power projects. The company owns/operates over 30 EfW facilities in the United States that safely convert 15 million tons a year of municipal solid waste into clean, renewable energy for communities throughout the country.

Department of Business, Economic Development & Tourism
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State agency whose core mission is to strengthen and diversify Hawaii's economy, lead business development efforts, attract new businesses and investment, and document Hawaii's economic development.

Diagnostic Engineering Hawaii, LLC
720 South Street #152
Honolulu, HI 96813
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Diagnostic Engineering Hawaii Is Your Field Service Source For Laboratory Research & Clinical Instrumentation On Site Service - All Islands Maintenance Programs Emergency Service Calls Engineering Change Orders System Design & Integration Power Protection & Allocation Retrofits Installations Program Updates Hardware Disposal Manufactures Liasion Examples of Products & Technologies We Support Sequencers Flowcytometry Spectrphotometers Microplate Stackers Particle Characterization Micro Array Readers Automated Chemistry Hematology Automation Immunoassay Chemistry Beta & Gamma Counting Incubators Centrifuges Water Systems Coagulation Analyzers Hi Throughput Screening.

DSA Engineering, Inc.
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DSA Enginnering, Inc. is a mechanical engineering services with specialities in HVAC, refrigeration, plumbing, process piping, pipe protection and energy conservation design FAC communication, industrial, governmental, military and residential facilities.

Economic Development Alliance of Hawaii, Inc.
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A 501(c)3 Hawaii Corporation whose mission is to create shared prosperity and opportunity through responsible economic development across the Hawaiian Islands. EDAH and its development partners have over 20 years of experience in initiating, managing, and providing quantifiable results in job creation, business attraction and rural based economic development.

Energy Industries, Inc.
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Email: miles.kubo@energy-industries.com
Website: www.energy-industries.com
Energy Industries is a national energy project developer focusing on energy conservation and renewable energy systems. EI brings a team of consultants, engineers, project managers and contractors together in a one-stop-shop helping eliminate the complexity in installing energy systems. Originally founded in 1994, EI has helped its customers save over $500 million dollars in energy.

Energy Management Consulting & Construction, LLC
227 Puuhale Rd
Honolulu, HI
Phone: **Fax:**
Email:
Website: www.emcchawaii.com
Energy Management Consulting & Construction, LLC is a company dedicated to providing technology and consulting services for a greener Hawaii. We hope that our efforts will lead to a cleaner, more energy efficient place to live. As a company, our goal is to promote energy efficiency, conservation, renewable/sustainable technology and greener products to move toward the State of Hawaii's 2050 goal of sustainability.

Energy Management Group
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Enova Systems, Inc.
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Website: www.envovasystems.com
Evnoa Systems is a globally recognized leader as a supplier of efficient environmentall-friendly digital power components and systems products, in conjuction with the associated engineering services. The company's core copentencies are focused on the development and

commercialization of power management and conversion systems for mobile and stationary applications. Enova applies unique 'enabling technologies' in our Drive Systems and components that can be found in numerous areas of alternative energy propulsion systems for light and heavy-duty vehicles as well as power conditioning and management systems for distributed generation systems. Our commercially available, environmentally friendly, hybrid drive systems, have significant savings in fuel economy to end users, and in addition, dramatically reduce pollution to the air from green house gases and noise.

Enterprise Honolulu
John Strom, V.P. of Business Development & Technology Program Manager
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Non-profit economic development organization funded by Oahu's private and public sectors that is focused on attracting, retaining and growing businesses throughout Hawaii. Works to improve Hawaii's business climate and global competitiveness, in collaboration with government agencies and other business associations.

FOPCO (Fuel Oil Polishing Company of Hawaii, Inc.)
Dennis McElratch
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Kapolei, HI 96707
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Website: http://www.fopco.net
Fuel Oil Polishing Compnay of Hawaii, Inc. is divided into three divisions: 1) Construction, 2) Electrical/Mechanical, and 3) Specialty Services; including Environmental, Precision Testing/Calibration and Cleanings. Although each division provides a distinct service, each are staffed with industry and journeyman grade professionals who support and compliment the other divisions in the performance of individual or complex multi-trade projects.

Friends of NELHA
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Education and Outreach of activities at the Natural Energy Laboratory of Hawaii Authority (NELHA). Call or check website for weekly public presentations schedule. FON is a 501©3 non-profit whose mission is the educate the public about sustainability and self-sufficiency in Hawaii through renewable energy and food production.

Godbey Griffiths Reiss, LLP
Reiss Of Counsel, Intellectual Property and Patenting (Biochemistry)
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Law Firm concentrating on all aspects of Intellectual Property and Internet Law and Commercial Litigation.

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Goodsill Anderson Quinn & Stiifel has served the legal and business needs of clients in Hawaii and around the world since 1878. With more than 70 attorneys located in downtown Honolulu, Goodsill offers knowledge and experience in all aspects of civil law, including business and securities law, banking, real estate, tax, trusts and estates, public utilities, immigration, international transactions and civil litigation. In addition, Goodsill attorneys have expertise in such specialized areas as mergers and acquisitions, environmental law, antitrust, aviation, admirality, International trade, labor and employment, media, technology, start-ups, venture financing and health law.

H NU Photonics
851 Eha Street, Unit A
Wailuku, HI 96793
Phone: (808) 244-7800 **Fax:** (808) 244-7811
Email:
Website:
We have extensive manufacturing capability for developing mechanical, opto-mechanical or electro-opto-mechanical technologies. We have complete CNC machining facility, optical fabrication and test laboratory,

electronics development, assembly and test laboratory. We have extensive optical and mechanical design software for developing product models to complete manufacturing drawings and specifications. We have developed new processes for fabricating hard ceramic materials such as silicon carbide and infrared materials such as germanium. We offer a variety of lightweight optical components and systems including light-weighted low expansion glass, silicon carbide and other materials. for industrial, research or military applications.

H2 Technologies, Inc.
Guy Toyama, COO
73-4347 Malie Place
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Email: guy@h2-techs.com
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Research and Development of low current hydrogen generators which apply an Ultra Sonic Enhanced Electrolysis (USEE) system.

Hawaii Agriculture Research Center
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Laboratory and field facilities for agricultural biotechnology, crop and processing research services.

Hawaii BioEnergy, LLC
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Email: borlopp@hawaiibioenergy.com
Website: http://www.hawaiibioenergy.com/
Hawai'i Bioenergy's mission is to determine the feasibility and viability of locating and operating integrated ethanol bio-refinery plants in the Hawaiian Islands. Hawai'i BioEnergy is actively researching sugarcane and other potential fuel crops, processing techniques, and distribution channels for the production of renewable bio-fuels within the State of Hawai'i. The consortium invites participation by Hawai'i's other major landowners, businesses, as well as state and county agencies.

Hawaii Business and Entrepreneur Acceleration Mentors (HiBEAM)
Rachel Ogdie, Executive Director
1099 Alakea Street, Suite 1800
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Non-profit Organization that helps launch and build promising early stage Hawaii technology companies by providing expert professional advice and access to funding sources.

Hawaii Crop Improvement Association
Joy Gold
1136 Union Mall, Suite 403
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Honolulu, HI 96830
Phone: (808) 526-3770 **Fax:** (808) 540-0415
Email: joy@joygoldunlimited.com
Website: www.hciaonline.com
Membership organization that supports the growth and development of the seed industry, agriculture and agricultural sciences in Hawaii through advocacy, outreach education and science-based information.

Hawaii Electric Light Company
Jay Ignacio, President
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Hawaii Electric Light Company provides electricity to nearly 80,000 customers on Hawaii Island.

Hawaii Energy Policy Forum, Public Policy Center, University of Hawaii at Manoa
Sharon Miyashiro & Mike Hamnett, Co-Chairs
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Honolulu, HI 96822
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Website: http://www.hawaiienergypolicy.hawaii.edu
Collaborative of energy stakeholders committed to preferred energy future for Hawaii through sharing of ideas and information,researching issues of significance in achieving the vision and goals of a comprehensive

energy plan and recommending and advocating policies and initiatives therefrom; and promoting civic action through communication and outreach activities.

Hawaii Environmental Biosolutions, Inc
3050 Maile Way, Gilmore Hall 115
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Hawaii Environmental Biosoluction, Inc. offers a uniquely designed Bio-nest Reactor, Biopottery-Windmill Pond Clean-up system and consulting service to wastewater engineering market. AWS and its partners provide an innovative and cost-effectivesolution for American dairy farms to help them manage their wastewater purity to meet new regulatory requirements.

Hawaii Island Economic Development Board, Inc.
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117 Keawe Street
Hilo, HI 96720-2811
Phone: (808) 935-2180 **Fax:** (808) 935-2187
Email: info@hiedb.org
Website: www.hiedb.org
A networking business organization that specializes in facilitating federal resource program and implementation of economic development projects. Provides information and assistance for businesses and industries and serves as key liaison to federal, state, county and private sector resources in financing, business planning, permitting, legal advice and other business services.

Hawaii Renewable Energy Alliance
Warren Bollmeier
46-040 Konane Pl. #3816
Kaneohe, HI 96744
Phone: (808) 247-7753 **Fax:**
Email: wsb@lava.net
Website:
The Hawaii Renewable Energy Alliance (HREA) has formed to support, through education and advocacy, the utilization of renewables "for a sustainable, energy-efficient, environmentally friendly, economically sound future for Hawaii." The group's membership is made up of representatives from the renewable energy industry, public interest groups, and state and local government agencies.

Hawaii Science & Technology Council
Lisa H. Gibson, President
735 Bishop St., Suite 401
Honolulu, HI 96813
Phone: (808) 536-4670 **Fax:** (808) 536-4680
Email: lgibson@hawaiiscitechcouncil.com
Website: www.hiscitech.org
The Hawaii Science & Technology Council is a Hawaii industry association serving Hawaii companies engaged in life sciences, information and communication technology, energy and sustainable technologies, defense and dual-use companies and film and digital media through a statewide public and private sector network.

Hawaii Solar Energy Association
Mark Duda, President
P.O. Box 1462
Kailua, HI 96734
Phone: (808) 262-6600 ext. 207
Email: mark@suntechhawaii.com
Website: www.hsea.org
The Hawaii Solar Energy Association is a professional trade association. HSEA members are dedicated to providing quality solar products and services to Hawaii's residences, and are active in supplying, installing and servicing solar water heating and solar electric systems. HSEA's activities include educating consumers, policy makers and decision makers in the benefits of solar to individuals, businesses, communities and the state.

Hawaii Strategic Development Corporation
P.O. Box 2359
Honolulu, HI 96813
Phone: (808) 587-3830 **Fax:** (808) 587-3832
Email: jchock@dbedt.hawaii.gov
Website: www.htdc.org/hsdc
State agency created in 1990 to promote economic development and diversification in conjunction with private enterprise; works to develop a sustainable venture capital industry in Hawaii which will stimulate the growth of new businesses.

Hawaii Venture Capital Association (HVCA)
Bill Spencer, President
805 Kainui Drive
Kailua, HI 96734
Phone: (808) 262-7329 **Fax:** (808) 263-4982
Email: windcon@hawaii.rr.com
Website: www.hvca.org/home.aspx
Organization that seeks to foster entrepreneurial development through networking, education, and access to venture capital.

Hawaiian Electric Company
Art Seki, Director, Technology
P.O. Box 2750
Honolulu, HI 96840-0001
Phone: (808) 543-7987 **Fax:** (808) 203-1581
Email: arthur.seki@heco.com
Website: www.hawaiisenergyfutre.com
Hawaiian Electric's technology division conducts research and analysis of renewable energy projects under consideration by Hawaiian Electric and its subsidiaries, Maui Electric Company and Hawaii Electric Light Company.

Hawaiian Electric Company
Karl Stahlkopf, Senior Vice President, Energy Solutions & CTO
P.O. Box 2750
Honolulu, HI 96840
Phone: (808) 543-7655 **Fax:** (808) 543-7657
Email: kstahlkopf@heco.com
Website: www.heco.com
The energy solutions division manages energy efficiency and renewable energy projects for Hawaiian Electric Company, Inc.

Hawaiian Electric Company
Robbie Alm, Executive Vice President
900 Richards Street
Honolulu, HI 96813
Phone: (808) 543-7650 **Fax:** (808) 203-1154
Email: robbie.alm@heco.com
Website: www.heco.com
The public affairs division includes regulatory, government, community and media relations for Hawaiian Electric Company, Inc., which, with its subsidiaries Maui Electric Company and Hawaii Electric Light Company, provides electricity to 95 percent of the state's 1.2 million residents of Oahu, Maui, Hawaii, Lanai and Molokai.

Hawaiian Mahogany, Inc.
William Cowern, President
4896 Kua Rd., P. O. Box 649
Lawai, HI 96765
Phone: (808) 639-9190 **Fax:** (808) 332-8170
Email: treefarm@halekua.com
Website:
Reseach and development of renewable energy systems, sustainable timber and food systems, and the sustainable growth of biofuels.

Hawaiian Research
P.O. Box 40
Kaunakakai, HI 96748
Phone: (808) 553-5070 **Fax:** (808) 553-5436
Email:
Website:
Commercial agricultural research services Engineering and Research and Technology Based Services.

High Technology Development Corporation (HTDC) – Hawaii Center for Advanced Transportation Technologies (HCATT)
Thomas Quinn, Director
531 Cooke Street
Honolulu, HI 96813
Phone: (808) 594-0100 **Fax:** (808) 594-0102
Email: tquinn@htdc.org
Website: www.htdc.org/hcatt
Agency coordinator for the development and demonstration of zero emission and low emission transportation technologies to meet military and commercial needs. Projects are managed through state government contracts with private and public organizations.

High Technology Development Corporation (HTDC)
Yuka Nagashima, CEO
Manoa Innovation Center
2800 Woodlawn Drive, Suite 100
Honolulu, HI 96822
Phone: (808) 539-3806 **Fax:** (808) 539-3611
Email: ceo@htdc.org
Website: www.htdc.org
HTDC facilitates the development and growth of\ncommercial high technology industry in Hawaii. We serve as an advocate for start-up and\nexisting high-technology companies doing business in Hawaii and is a source of information on high technology activity in the State.

Hoku Scientific, Inc.
Scott Paul, V.P. Business Development & General Counsel
1075 Opakapaka Street
Kapolei, HI 96707
Phone: (808) 682-7800 **Fax:** (808) 682-7807
Email: spaul@hokusci.com
Website: http://www.hokuscientific.com/
Hoku Scientific is a materials science company focused on clean energy technologies. Historically, we have focused on developing new products for hydrogen fuel cells. We are now diversifying our business by forming two new businesses: an integrated photovoltaic, or PV, module business, and a polysilicon business, which is a primary material used in the manufacture of PV modules.

Honolulu Seawater A/C LLC
7 Waterfront Plaza, Suite 400
500 Ala Moana Blvd
Honolulu, HI 96813
Phone: (877) 290-2812 **Fax:**
Email:
Website: http://honoluluswac.com
Honolulu Seawater Air Conditioning utlizes a renewable energy system that uses cold water from the deep ocean to cool buildings Honolulu Seawater Air Conditioning, LLC was founded by Market Street Energy Company, LLC, of Saint Paul, Minnesota. The Hawaii limited liability company was founded to develop seawater air conditioning projects in Hawaii.

Honua Technologies Inc.
500 Ala Moana Boulevard, Suite 7-220
Honolulu, HI 96813
Phone: (808) 523-3140 **Fax:** (808) 523-3122
Email:
Website: http://www.honuatech.com
HonuaTech ("Honua") is an American industry leader in the design and manufacture of high-temperature, environmentally safe medical and bio-hazardous waste destruction and treatment systems. Honua provides viable alternatives to the conventional incineration of medical, bio-hazardous and other special wastes, including the ability to destroy chemotherapy and pathological wastes

HR Biopetroleum, Inc
C. Barry Raleigh, President
P.O. Box 240548,
Honolulu, HI 96824-0548
Phone: **Fax:**
Email: esf@hawaii.rr.com
Website:
Technology company specializing in cultivation of algae to produce feedstock for biodiesel and to sequestoer CO2.

HSI Electric, Inc.
Bruce Smith
2308 Pahounui Dr.
Honolulu, HI 96819
Phone: (808) 845-5555 **Fax:** (808) 847-7777
Email: his-info@hsielectirc.com
Website: www.hsielectric.com
HSI Electric is Hawaii's premier electrical systems and apparatus resource for Research & Development. Capable, experienced, licensed and certified in Federal, military, state and private endeavors, HSI provides installation, service and sales for all manner of electrical apparatus, specializing in marine and industrial applications.

Inter-Island Solar Supply
Ron Richmond, Manager of Business Development
761 Ahua St.
Honolulu, HI 96819
Phone: (808) 523-0711 **Fax:**
Email: rrichmond@solarsupply.com
Website: www.solarsupply.com
Inter-Island Solar Supply (IISS) is one of the nation's largest and most experienced distributors of renewable energy products and packaged systems, including solar hot water and solar electric (photovoltaic) systems. IISS is also a leading supplier of water heaters and storage tanks, pumps, controls, solar attic fans, skylights and natural day-lighting systems. Our three Hawaii branches are conveniently located in Honolulu (Oahu), Kahului (Maui) and Kailua-Kona (Big Island).

International Underwater Explorations (IUE)
Joe Breman, Director
373 Ulumanu Rd.
Haiku, HI 96708
Phone: (808) 214-2326 **Fax:** (808) 572-5080
Email: jbreman@akimeka.com
Website:
Geospatial map and globe services for petroleum, ocean, defense, pipeline, cable, marine, harbor, conservation, and coastal resource management. Specializing in GIS and analytic, geospatial technology, seafloor visualization, and internet web services.

Kauai Economic Development Board, Inc.
Mattie Yoshioka, President & CEO
4290 Rice Street
Lihue, HI 96766
Phone: (808) 245-6692 **Fax:** (808) 246-1089
Email: myoshioka@kedb.com
Website: www.kedb.com
A 501(C)(3) non-profit organization established in 1984. Explores ways to diversify Kauai's economy, and create and strengthen industries that can flourish on Kauai. Focus includes science and technology, diversified agriculture and aquaculture, health and wellness, renewable energy, visitor industry support, education and workforce development.

Kauai Island Utility Cooperative
Steven Rymsha, Renewable Energy Staff Engineer
4463 Pahe'e Street, Suite 1
Lihue, HI 96766-2000
Phone: (808) 246-8287 **Fax:** (808) 246-4344
Email: srymsha@kiuc.coop
Website: www.kiuc.coop
In November of 2002 KIUC became the first electric cooperative in Hawaii. KIUC is a not-for-profit organization owned by the 23,800 members it serves. Increasing generation from renewable sources and diversifying our generation mix is a top priority of KIUC. By 2023 KIUC plans to achieve 1990 greenhouse gas emission levels, which will result in over 50% of generation from renewable sources. Expansion of renewable generation sources will include biomass, wind, hydroelectric, solar, and use of biofuels when economical.

Kolohala Ventures
Michael T. Pfeffer, Managing Partner
900 Fort Street Mall, Suite 1800
Honolulu, HI 96813
Phone: (808) 447-9248 **Fax:** (808) 546-4325
Email: info@kolohala.com
Website: www.kolohala.com
Kolohala Ventures is a Hawai`i-focused venture firm that provides technology companies with financing and support throughout the business life-cycle. Kolohala Ventures focuses on providing investors with superior due diligence and access to the highest quality investment opportunities. In addition, the company invests primarily in Qualified High Technology Businesses (QHTB) to leverage Act 215 and provide investors with significant tax advantages and/or enhanced equity.

Kuehnle AgroSystems Co LLC
Adelheid R. Kuehnle, President
Manoa Innovation Center
2800 Woodlawn Drive, Suite 281
Honolulu, HI 96822-1843
Phone: (808) 753-2693 **Fax:** (808) 988-3170
Email: gordon@kashawaii.com
Website:

Kukuipahu Energy
John Ray, General Manager
65-1230 Mamalahoa Hwy., Suite E23
Kamuela, HI 96743
Phone: (808) 885-0441 **Fax:** (808) 885-4419
Email: jr@kukuipahuenergy.com
Website: In development
Kukuipahu Energy, LLC's goal is to develop commercial production of clean biomass-to-liquid (BTL) transportation fuels employing advanced refinery technology and renewable feedstocks grown in Hawai'i.

Makai Ocean Engineering, Inc.
Joseph C. Van Ryzin, President
P.O. Box 1206
Kailua, HI 96734
Phone: (808) 259-8871 **Fax:** (808) 259-8238
Email: makai@makai.com
Website: www.makai.com
Ocean engineering, design and analysis: deep ocean pipelines, submarine cable installation, seawater air conditioning, aquaculture, marine vehicles, surveying,

construction management; SOFTWARE development: submarine cable planning, installation, control, repair.

Maui Economic Development Board, Inc. (MEDB)
Tom Liu, Program Director
1305 N. Holopono St., Suite 1
Kihei, HI 96753
Phone: (808) 875-2340 **Fax:** (808) 879-0011
Email: tom@medb.org
Website: www.medb.org
A 501 (c) (3) not-for-profit corporation that has been serving the Maui County community since 1982. MEDB's mission is to provide leadership for the responsible design and development of a strong, sustainable and diversified economy. To achieve its goals, MEDB engages the community in economic development decision making, assists businesses in growth sectors, initiates education and workforce preparation, and promotes economic literacy in partnership with business, government, academia and our community stakeholders.

Maui Electric Company
Ed Reinhardt, President
210 West Kamehameha Avenue
Kahului, HI 96732-2253
Phone: (808) 871-2300 **Fax:** (808) 871-2350
Email: edward.reinhardt@mauielectric.com
Website: www.mauielectric.com
Maui Electric Company provides electricity to more than 65,000 customers on Maui, Molokai and Lanai.

Maui Solar Energy Software Corporation
810 Haiku Road # 113, Box 1101
Haiku, HI 96708
Phone: **Fax:**
Email:
Website: http://www.mauisolarsoftware.com/
Maui Solar Energy Software Corporatioin develops software to aid in photovoltaic system design by providing accurate and in-depth information on likely system power output and load consumption, necessary backup power during the operation of the system, and the financial impacts of installing the proposed system. PV-DesignPro is directed at individuals who consider themselves as professional PV system designers and researchers, but has been completed in such a way as to make it possible novice designers to evaluate system designs.

Natural Energy Laboratory of Hawaii Authority (NELHA)
Ron Baird, CEO
73-4460 Queen Kaahumanu Hwy., #101
Kailua-Kona, HI 96740
Phone: (808) 329-7341 **Fax:** (808) 326-3262
Email: nelha@nelha.org
Website: www.nelha.org
870 acre ocean science & technology park with tenants involved in: Open-cycle, closed-cycle & mist lift OTEC research; culturing & hybridization of cold & warm water marine species; cold water agriculture ; R&D of microalgae processing methods, etc.

Nature Forces, Inc.
1515 Ualakea Place
Honolulu, HI 96822
Phone: (808) 375-2327 **Fax:** (808) 748-8125
Email:
Website:
Nature's Force Corporation (NFC) is a research and development company whose mission is to help solve the world's energy needs the natural way, through creativity and innovation, by designing simple, rugged, and cost effective devices to capture the vast inexhaustible natural sources of energy on earth. Its goal is to license these innovative new concepts to corporations and governments world wide for the betterment of mankind.

Navatek, Ltd.
Michael Schmicker, V.P. Corporate Communications
P.O. Box 29816
Honolulu, HI 96820
Phone: (808) 531-7001 **Fax:** (808) 523-7668
Email: schmicker@navatekltd.com
Website: www.navatekltd.com
Navatek is a leader in researching, developing and deploying innovative, advanced ship hull designs and associated technologies. Navatek has also patented a wave energy conversion device and the ocean model has been fully tested.

Noresco, LLC
3375 Koapaka Street, F220-26
Honolulu, HI 96819
Phone: (808) 833-7777 **Fax:** (808) 834-1813
Email:
Website: http://www.noresco.com
As the nation's premier energy service company, NORESCO built its foundation on four basic business principles - customer service, integrity, innovation and operational excellence. NORESCO has built on-site energy facilities that generate more than 350 megawatts of power, and has helped customers improve energy efficiency saving over 31 billion kilowatt-hours of electricity and 71 trillion Btus of fuel – enough to provide over 1 million homes with electricity for the next five years.

Oceanit
Patrick K. Sullivan, P.E., President
828 Fort Street, Oceanit Center
Honolulu, HI 96813-4321
Phone: (808) 531-3017 **Fax:** (808) 531-3177
Email: oceanit@oceanit.com
Website: www.oceanit.com
Specializes in environmental and coastal engineering services and research and development. Special capability is problem solving. Services: marine environmental surveys and assessments, environmental documents, physical hydraulic modeling, physical ocean, and defense systems.

Pacific Biodiesel, Inc.
Bob King, President
40 Hobron Avenue
Kahului, HI 96732
Phone: (808) 877-3144 **Fax:** (808) 877-5030
Email: bking@biodiesel.com
Website: www.pacificbiodiesel.com
Pacific Biodiesel Inc., a pioneer in the successful commercial community-scale production of Biodiesel. The small scale, economically feasible Maui operation was recognized by biodiesel authorities nationwide as one of the first commercially viable biodiesel plants in the U.S.

Pacific Energy Services
Duane Ashimine, Partner
2656-B Waiwai Loop
Honolulu, HI 96819
Phone: (808) 216-3480 **Fax:** 808-216-3480
Email: dashimine@pac-energy.com
Website: www.pac-energy.com
Since 1998 Pacific Energy Services has been helping its customers design and certify their facilities to energy standards. As the first Energy Star partner in Hawaii and one of the top LEED certification firms in the state, Pac-Energy has established itself as a high integrity certification and rebate acquisition firm.

Pacific Energy Strategies LLC
Steve Olsen, President
Robert Frank, Office Manager
94-1093 Hanauna Street, Ste. 102
Waipahu, HI 96797
Phone: (808) 671-5566 **Fax:** (808) 678-1475
Email: solar@pacific-energy.com
Websites: www.pacfreehotwater.com
www.pacific-energy.com
Pacific Energy is an Energy Service Company (ESCO). We provide installation of Solar Water Heaters, Solar Attic Fans, Photovoltaic Systems, Energy Surveying, Engineering, General Contracting Services, Facility Surveys, Billing Analysis, Data Logging and Analysis, Equipment Selection, Design of New Mechanical and Electrical Systems, Construction Implementation, Financing, Equipment Leasing Programs, Operations and Maintenance when requested by client, and Guaranteed Energy Savings Programs available. We may provide a no cost survey for your facility, pending qualification.

Pacific International Center for High Technology Research
Dennis Teranishi, Interim President & CEO
1440 Kapiolani Boulevard, Suite 1225
Honolulu, HI 96814
Phone: (808) 943-9581 **Fax:** (808) 943-9582
Email: dennis.teranishi@pichtr.org
Website:
Independent, not-for-profit, applied research and development center. Programs include: Biomass Systems, Biosystems Technology, Environmental Science And Technology, etc. PICHTR also provides administrative services (contract management).

Pacific Ocean Wave Energy & Research, Ltd.
Peter Lee, Esq.
Pauahi Towers, 1000 Bishop Street, Suite 1300
Honolulu, HI 96813
Phone: (808) 532-9800 **Fax:** (808) 528-4690
Email: oceanwave@att.net
Website:
R & D into green energy projects, including development of deep water air conditioning, as well as land-based devices such as thermal and geothermal systems.

Pacific West Energy LLC
William Maloney, President
1 Kaumakani Ave., P.O. Box 220
Kaumakani, HI 96747
Phone: (360) 597-4690 **Fax:** (360) 597-4691
Email: wmaloney@aol.com
Website: www.pacificwestenergy.com
The company is currently actively developing an intergrated energy bio-refinery producing ethanol and electricity on the island of Kauai. The Kauai project entails the operation of the 7,500 acre Gay & Robinson sugar plantation and mill, and the development, construction and operation of a fuel ethanol plant and electricity production facility integrated into the sugar mill. The company is also developing a biodiesel plant designed to produce biodiesel for the company's own use, for use in green power production, and for sale to third parties.

Paradise Patent Services, Inc.
George E. Darby, JD, MBA
Registered Patent Attorney, President
P O Box 893010
Mililani, HI 96789-3010
Phone: (808) 626-1300 **Fax:** (808) 626-1350
Email:
Website:
Concentrating in Biotech, Medical Devices and Software.

ProVision Technologies, Inc.
Marco Mangelsdorf, President
69 Railroad Ave., Suite A-7
Hilo, HI 96720
Phone: (808) 969-3281 **Fax:** (808) 934-7462
Email: marco@pvthawaii.com
Website: www.provisiontechnologies.com
ProVision Technologies, Inc was formed to take advantage of the growing market for photovoltaic (PV) applications across the Hawaiian Islands and the Asia-Pacific region. ProVision is based in Hilo on the Big Island of Hawaii, the island known for its geographical diversity and strong potential for renewable energy applications. ProVision's mission is to provide solar electric solutions to power individual households, commercial facilities and the community.

Puna Geothermal Venture
Michael Kaleikini
14-3860 Kapoho-Pahoa
Pahoa, HI 96778
Phone: (808) 965-6233 **Fax:** (808) 965-7254
Email: mkalekini@ormat.com
Website: www.punageothermalventure.com
Puna Geothermal Venture is the only commercial producer of geothermal energy in Hawaii, quietly producing geothermal-generated electricity for Hawaii Electric Light Company, working to be a good neighbor, and a steady supplier of power.

Renewable Energy Services, Inc.
P.O. Box 278
Paauilo, HI 96776
Phone: (808) 775-0582 **Fax:**
Email:
Website: www.renewablenergy.com
Renewable Energy Services, Inc. (RES) specializes in Wind and Photovoltaic (PV) consulting, design and installation of custom renewable energy power systems for residential through commercial/village scale, and the manufacture of integrated, rooftop and ground-based PV power system packages.

Schlack Ito Lockwood Piper & Elkind
Douglas Codiga, Esq.
745 Fort Street, Suite 1500 Honolulu, HI 96813
Phone: (808) 523-6040 **Fax:** (808) 523-6030
Email: dcodiga@sil-law.com
Website: www.sil-law.com
Schlack Ito Lockwood Piper & Elkind is a premier law firm combining large firm expertise with small firm efficiency and personal service to deliver legal services of the highest caliber. The firm's practice areas include business and commercial law, environmental and land use law, real estate leasing and sales, real estate development and finance, litigation and dispute resolution, government relations, and charitable

organizations. Our firm represents Honolulu Seawater Air Conditioning, LLC, Imperium Renewables Hawaii LLC, and Green Energy Team LLC in developing clean technology projects in Hawaii.

Science Applications International Corporation
Roger Medd, Project Manager
P.O. Box 846
Waimea, HI 96796
Phone: (808) 338-2426 **Fax:** (808) 338-2113
Email: meddr@saic.com
Website: www.saic.com
SAIC on Kauai has over 30 employees with experience and advanced degrees in a variety of engineering disciplines. The majority of our projects are with the Office of Naval Research, but we are interested in research and development of all types in Hawaii. Specific to renewable energy, we have recent extensive experience installing and maintaining solar power systems for remote sensors on Kauai and Niihau.

Sea Engineering, Inc.
Robert Rocheleau, President
Patrick Ross, Vice-President
Makai Research Pier
Waimanalo, HI 96795
Phone: (808) 259-7966 **Fax:** (808) 259-8143
Email: brocheleau@seaengineering.com
Website: www.seaengineering.com
Specializes in coastal and ocean engineering, marine geophysical surveys, marine construction and commercial diving. SEI has worked on several aspects of ocean renewable energy projects including oceanographic measurement and analyses, site surveys and site selection, and installation of underwater power cables and wave energy devices.

Sennet Capital LLC
Larry Gilbert, Managing Director
Kenton Eldridge, Director
737 Bishop Street, Suite 3170
Honolulu, HI 96813
Phone: (808) 457-1300 **Fax:** (808) 356-0830
Email: lgilbert@sennetcapital.com
Website: www.sennetcapital.com
Merchant bank providing project financing, investment capital and investment banking services to renewable energy developers and projects.

Sopogy, Inc.
Darren Kimura, President/CEO
2660 Waiwai Loop
Honolulu, HI 96819
Phone: (808) 216-3478 **Fax:** (808) 356-0565
Email: dkimura@sopogy.com
Website: www.sopogy.com
Sopogy has pioneered the technology bringing the proven concepts of Concentrated Solar Power (CSP) to the distributed generation market. This is called MicroCSP™ and reduces the cost and increases the effectiveness of concentrated solar power collectors. MicroCSP™ is a revolution in solar potential and Sopogy is working to bring our products to the market in a dramatically new way.

SunEdison Hawaii
Keith Cronin, President
270 Kuulei Rd., Suite 106
Kailua, HI 96734
Phone: (808) 262-3268 **Fax:** (808) 263-0338
Email: kcronin@sunedison.com
Website: www.sunedison.com
Sun Edison owns and operates more power plants and deliver more megawatt hours than any other solar energy service provider in North America. As North America's largest solar energy service provider, SunEdison understands the intricate nuances of delivering solar energy. Offering turnkey services, we remove the costs and complexity of engaging in solar. We help you achieve predictable energy pricing for the long-term, without the upfront costs required by traditional solar product vendors. SunEdison is currently working on several solar projects in Hawaii.

SunPower Corporation
Riley Saito, Senior Manager, Hawaii Projects
73-1294 Awakea St.
Kailua-Kona, HI 96740
Phone: (808) 895-0646 **Fax:** (808) 325-6256
Email: rsaito@sunpowercorp.com
Website: www.sunpowercorp.com
SunPower, (formerly known as PowerLight), has been a partner with local business, the utility, and the State of Hawaii over the past 11 years. In 1998: First "commercially-financed" PV system in US, on roof of Mauna Lani Hotel; 1999: First solar powered golf cart at Mauna Lani; 2000: First PV solar farm at Parker Ranch used for pumped hydro storage. In Hawaii, SunPower has installed and continues to monitor and maintain 2

MWs of PV system capacity. Additionally, SunPower is currently installing 1.8 MW throughout the Islands, with 3 MW under contract on all the major islands including Lana'i. SunPower is a vertically-integrated solar PV provider, responsible from cell and module production, systems installation and financing, to operations and maintenance.

TCI-Hawaii, Inc.
1 North Road, Wood Valley
Pahala, HI 96777
Phone: (808) 944-4672 **Fax:** (808) 235-5161
Technology Partners
Roger J. Quy, General Partner
550 University Avenue
Palo Alto, California 94301
Phone: (650) 289-9000 **Fax:** (650) 289-9001
Email: roger@technologypartners.com
www.technologypartners.com
Website: www.technologypartners.com
Founded over 20 years ago as a private venture capital firm, Technology Partners manages a total of more than $700 million of investment capital. We serve principally as a lead investor and business advisor to both Life Science and Cleantech companies. Technology Partners actively seeks investment operating in Hawaii include: Cardax Pharmaceuticals, Hawaii Biotech, and Imperium Renewables.

U.S. Pacific Basin Agricultural Research Center
Dennis Gonsalves, Center Director
99 Aupuni Street
Hilo, HI 96720
Phone: (808) 932-2100 **Fax:** (808) 969-6967
Email: dgonsalves@pbarc.ars.usda.gov
Website:
Develops basic and applied information to strengthen agriculture in Hawaii and the Pacific Basin.

University of Hawaii at Manoa, Hawaii Natural Energy Institute (HNEI)
Richard Rocheleau, Director
1680 East-West Rd., POST 109
Honolulu, HI 96822
Phone: (808) 956-8890 **Fax:** (808) 956-2336
Email: hnei@hawaii.edu
Website: www.hnei.hawaii.edu
Conducts research in energy-related fields, including biomass-derived fuels and materials, hydrogen produced from renewable resources, development and testing of fuel cells, photovoltaics, advanced batteries, and the exploration and development of ocean resources. Also works with industry and the State Energy Office in developing public/private partnerships for integrating renewable energy technologies within utilities, addressing energy policy issues, and conducting public outreach.

University of Hawaii at Manoa, Ocean and Resources Engineering Department (SOEST)
John Wiltshire, Chairperson
2540 Dole St., Holmes Hall 402
Honolulu, HI 96822
Phone: (808) 956-7572 **Fax:** (808) 956-3498
Email: admin@oe.soest.hawaii.edu
Website: oe.soest.hawaii.edu
Definitive work in very large floating platforms, offshore structure design, OTEC, wave energy, currents, wave climate, waste disposal, artificial reefs, beach processes, harbor design, ocean instrumentation, SWATH ships and ocean mining.

University of Hawaii, Office of Technology Transfer & Economic Development
Richard F. Cox, Jr., Director
2800 Woodlawn Drive, Suite 280
Honolulu, HI 96822
Phone: (808) 539-3817 **Fax:** (808) 539-3833
Email: rcox@hawaii.edu
Website:
OTTED is the technology licensing office for the University of Hawaii (UH) and was organized to help UH researchers commercialize promising new inventions and discoveries and to collaborate with industry research sponsors; to help industry gain access to promising research and new technologies developed at the University of Hawaii; and to promote State-wide economic development through UH's technology transfer programs.

UPC Hawaii Wind
Mike Gresham, VP
8 Kiopa`a Street, Suite 104
Pukalani, HI 96768
Phone: (808) 298-1055 **Fax:** (808) 572-0775
Email: mgresham@hawaii.rr.com
Website: www.kaheawa.com
Hawaii-based partnership to develop wind energy facilities in State of Hawaii

USDA/Rural Development
Tim O'Connell, Rural Energy Coordinator
154 Waianuenue Ave., Room 311
Hilo, HI 96720
Phone: (808) 933-8313 **Fax:** (808) 933-8327
Email: tim.oconnell@hi.usda.gov
Website: www.rurdev.usda.gov
Provide guaranteed loans, grants and combination loan/grants for renewable energy projects in rural areas.

Ventana Capital Management LLC
Thomas O. Gephart, Managing Partner
31473 Rancho Viejo Road, Suite 203
San Juan Capistrano, California 92675
Phone: (949) 481-4200 **Fax:** (949) 481-4440
Email:
Website: http://72.51.43.168/ventana
Ventana Capital Management LP is a Venture Capital firm with over 20 years of successful investing experience and over 70 technology portfolio companies.We invest in early-stage High Tech and Life Sciences and innovative energy infrastructure companies. Our investors include financial institutions and multinational corporations from around the globe. We utilize this global network for the benefit of the local companies in which we invest.

Waimana Enterprises, Inc.
1001 Bishop St, Pauahi Tower, Suite 2700
Honolulu, HI 96813
Phone: (808) 599-4411 **Fax:**
Email:
Website:
Waimana Enterprises, Inc. is the parent company of Sandwich Isle Communications that seeks to provide communications to rural areas. Waimana Enterprises is involved in the development power and other energy services for rural communities.

William Milks, Esq.
William W. Milks, Esq.
1001 Bishop St., Suite 977
Honolulu, HI 96813
Phone: (808) 526-3923 **Fax:** (808) 523-2088
Email: energylaw@hawaii.rr.com
Website:
William W. Milks (Boston College '65/Georgetown Law '71) has maintained an active law license in Virginia and Hawaii since 1972, specializing in federal and state administrative agencies, including 35 years of practice before the Hawaii Public Utilities Commission. Since the early 1990's, Milks has been counsel for, or a principal of, numerous renewable energy or co-generation projects. His current focus is on multiple renewable projects for the Island of Oahu.

Worldwide Energy Group
Eric Darmstaedter, CFO
99-193 Aiea Heights Drive, Suite 158
Aiea, HI 96701
Phone: (808) 221-2570 **Fax:**
Email: eric@technosynergies.com
Website:

WSB-Hawaii
46-040 Konane Pl, #3816
Kaneohe, HI 96744
Phone: (808) 247-7753 **Fax:** (808) 247-7753
Email:
Website:
WSB-Hawaii provides consulting services in the development of wind, solar and other renewable projects, and energy policy analysis and advocacy of wind, solar and other renewables.

Zero Emissions Leasing LLC
Erik Kvam, CEO
2800 Woodlawn Drive, Suite 131
Honolulu, HI 96822
Phone: (808) 371-1475 **Fax:** (808) 539-3625
Email: ekvam@zeroemissions.us
Website: www.zeroemissions.us
Zero Emissions protects and enhances the operating budgets of its Hawaii customers by providing them with solar electricity at rates lower than the rates for grid electricity.

For corrections, updates or to list a new company, please contact:

Department of Business, Economic Development & Tourism
Strategic Industries Division, Science & Technology Branch
Tel.: (808) 587-3807
Fax: (808) 586-2536



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