Success Story... Kelly Reid

"I like the applied experience I got from AET vs. just learning theory in a traditional engineering program. I can apply what I know and contribute to a job right now."

Kelly Reid was in 11th grade at Springfield High School when she heard about the AET program. A high-achieving honors student, she was on her way to certain acceptance at any number of highly ranked colleges and universities. But, she was intrigued by the opportunity to explore a different approach to her future through AET. What she discovered was an opportunity to do what she loved, obtain a debt-free college education, and get a head start on an exciting career.

Growing up, Kelly always had an interest in mechanical things. She enjoyed helping her dad with repairs to the car and house, using tools and working with her hands. When she learned that she could study Machine Tool Technology and earn college credits while still in high school, she jumped at the chance. Kelly enrolled in the AET program, spending half of every day at Springfield High and the other half at Delaware County Technical School during her senior year. She graduated from high school with experience in Machine Tool Technology, nine college credits, and $6,000 in scholarships from the Society of Manufacturing Engineers and Boeing Corporation. Enough to pay for an AAS degree in Machine Tool Technology at Delaware County Community College!

"The AET Career Pathways Program was my first choice. I didn't even consider applying to other colleges or universities."

Today, Kelly continues on her pathway to a future in engineering. She will soon complete her AAS degree and looks forward to working in her chosen career while completing her engineering degree at Drexel University. She has already been offered a job that will pay her full tuition benefits.



"This is a phenomenal stepping stone, a hidden treasure. From this program, students can go anywhere."

Bruce Reid (Kelly's Dad)

"Kelly will have no debt when she gets out of college. She'll have a needed skill – and she'll have opportunity."

Carol Reid (Kelly's Mom)

The AET Pathway: 2 + 2 + 2

High School: In Pathway Partner High Schools, students can earn up to 16 college credits during their junior and senior years. They will graduate with a Certificate that can immediately open doors to work or to higher education.

Community College: AET studies can be continued, or started, through the 2-year AET associate degree programs at Delaware County Community College, Montgomery County Community College and Community College of Philadelphia.

University: Through articulation agreements, students who complete the AET Associate's Degree program can transfer their credits to a partner university. They will then have the opportunity to complete the final 2 years of study needed to earn a baccalaureate degree. AET partners include Drexel, Widener, Penn State, and Neuman Universities. In addition, on-line degree programs are offered by California University of Pennsylvania.

Many young men and women choose to join the workforce and earn as they learn. Because AET students are key assets for growing manufacturers, many employers offer full tuition benefits.

Montgomery County Community College

"History has proven that manufacturing is the economic backbone of any first-world economy. We need a strong and capable manufacturing base to maintain our high standard of living. And, we need well-educated technical workers to fill the challenging positions of the new manufacturing industry."

William Brownlowe

Delaware County Community College

"We want curious students who ask the important questions: Why does an object do what it does? How does it work? How can I make it work better?

"Today's manufacturers are not looking for assembly line workers. They need people who are thinkers and who understand the theory behind a process."

Barbara Lyke

Community College of Philadelphia

"In today's advanced manufacturing environment there is so much opportunity. AET students can take advantage of this because it will open up great career opportunities.

"We prepare students for the workforce with technical education, hands-on experience, as well as with interpersonal and organizational skills. When students graduate they are ready to succeed in a highly technical job market."

Randy A. Libros

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Applied Engineering Technology Programs

Is Your Student on the Path to Success?

Developing Talent for the Revolution in Advanced Manufacturing

Pathways to Opportunity and Advancement in Education, Careers and Compensation





The Future Starts Now... Success Starts Here

Do you have a son or daughter in high school – or one who has just graduated? Does your child enjoy working with his or her hands, show creativity, and enjoy complex problem solving? If so, your student has a remarkable opportunity to secure a future of professional success and fulfillment through AET programs!

Dear Parents/Guardians,

There's a new rumbling in the Philadelphia region. You're among the first to know about it – and your son or daughter could be among those who benefit from it. It's an opportunity known as Applied Engineering Technology (AET), a new field of study fueled by the revolution in advanced manufacturing. AET programs respond to the explosive need for professional talent in this exciting sector – one involving approximately 5,000 businesses in the Philadelphia region.

Today, a high school diploma alone is not enough to secure a job in the highly technical world of advanced manufacturing. AET is a "hands-on/minds-on," academically challenging, engineering technology program that prepares students for these fulfilling, high-paying positions. As the baby boomer generation is poised to retire, a significant number of vacancies will be created at the highly-skilled level. Through AET, we will supply that talent.

AET programs offer a pathway to success that can begin in high school and continue through community colleges and four-year universities. Scholarships are offered and many full-time, AET-focused work opportunities are available, so students can earn as they learn. The financial incentives and rewards are many, as are the opportunities for a lifetime of success and achievement.

If you feel AET might be the right opportunity for your son or daughter, give us a call and learn more. Your encouragement could make the difference of a lifetime!

Regards,



Dr. Bernie Carrozza
Project Administrator
Community-Based Job Training Grant
Applied Engineering Technology
Career Pathways Program
Delaware County Community College

Opportunity and Rewards

The Opportunity – The New World of Manufacturing

The world of manufacturing has changed dramatically. Gone are the dreary environments and rote production lines of the past. In their place are advanced processes, high-tech equipment and finely-tuned production methods focused on innovation and sustainability. The Philadelphia region is one of the largest and fastest- growing markets for the new manufacturing economy -- and there is a massive, escalating need for workers with the motivation and skill to be part of this revolution.

The Careers – Exciting and Fulfilling

Applied Engineering Technology is a highly technical educational path that supports careers in advanced manufacturing. The AET program prepares students to work side by side with engineers, designers and architects to translate their ideas and concepts into product prototypes for the 21st century marketplace. Careers in the AET field include:

- Machine Tool Technician
- Process Technician
- Mechanical Technician
- Electrical/Electronics Technician
- Nanofabrication Technician
- Power Generation Technician

The Rewards – Excellent Salary and Benefits

AET students are trained for high-tech, high-paying positions in diverse manufacturing industries. Here's a look at the typical compensation and benefits offered.

Starting Salaries

AET Certificate:
$11 - $13 per hour

Associate Degree:
$28,000 - $32,000

Baccalaureate Degree:
$38,000 - $48,000

Benefits

- Tuition Reimbursement
- Health Care
- Dental Insurance
- Term Life Insurance
- 401(k) Retirement Accounts
- Bonuses
- Paid Vacation

southco®
CONNECT · CREATE · INNOVATE

"We like AET students because they are first-class students who come to us ready to work. They have practical, real-world know how and appreciate what you face as an engineer or member of the engineering team.

"We recruit for workers all over. With the AET program, we have a pool of talent here in the Philadelphia area that keeps people in the pipeline. We need that to sustain our own growth."

Mike McPhilmy
V.P. Human Resources
Southco
Manufacturer of Engineered Access Hardware

SYNTHES®

"After working with us for one year, we will pay 100% of the cost for college tuition and books for our workers. It could cost us $20,000 to $30,000 per student in tuition benefits. That's how valuable these workers are to our company.

"We offer a great opportunity for young men and women coming out of college with either an AAS or BS degree. The medical device industry is growing. They can grow right along with us."

Mike Sticklin
Human Resources Manager
Synthes North America
Manufacturer of Medical Devices

BOEING

"Many of the young men and women who start out with an AET associate degree start at Boeing as technicians, then pursue their four-year degree. A number of these individuals have moved into management.

"Students with Associate and Applied Science Degrees begin here as technicians. They assist the engineers with the compilation of data, drafting and testing."

Warren Purdy
Training Grant Analyst
Boeing Corporation
Manufacturer of Aerospace Systems



Success Story... Kevin Gorum

"With my experience in AET, I'm able to look through program code and figure out where a problem might be with a part I'm making. I'm proud of that."

At just 20 years old, Kevin Gorum has moved far beyond most of his friends in his old neighborhood. He's engaged, about to move into his own house, and has a full-time job he enjoys – one offering a salary in excess of $29,000, benefits and real potential for advancement. His success began in high school when he learned about the AET program.

A guy who likes creating things and solving problems, Kevin was considering becoming a graphic designer. He had just graduated from high school when he learned about the AET program at Delaware County Community College. The Machine Tool Technology program immediately caught his interest. He applied, was accepted and was awarded a scholarship from Synthes North America, a manufacturer of medical devices.

"I'm looking forward to advancing and eventually becoming a senior machinist."

After completing one year of the program, Kevin was offered a full-time job with Synthes, with tuition benefits that would enable him to complete his AAS degree. Kevin accepted and now happily drives 40 miles one way to work. As a Synthes CNC machinist, he helps make medical devices used to stabilize broken bones and other injuries in trauma patients. He continues to work toward his AAS degree, and looks forward to advancements in responsibility and salary in his chosen career.