

NORTHEASTERN PENNSYLVANIA

MANUFACTURING EDUCATION GUIDE

Connecting **YOU** with
Affordable Education
and Great Careers



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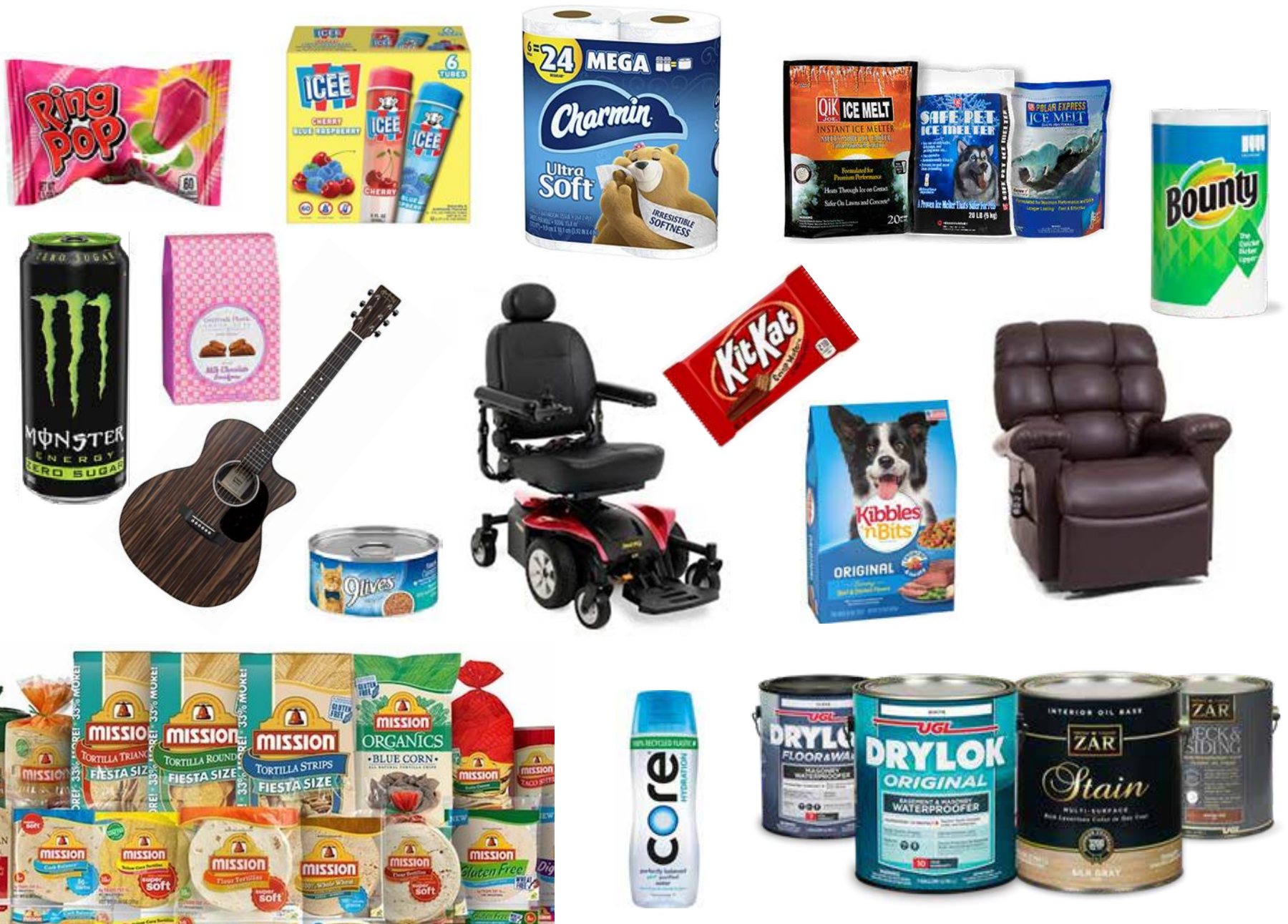
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the digital version!

**Some of the coolest everyday products are made right here in
northeastern Pennsylvania!**

**Prepare for YOUR manufacturing journey by checking out some of the schools
and programs highlighted in this guide!**



JOHNSON COLLEGE

**AFFORDABLY TRAINS TOMORROW'S
MANUFACTURING WORKFORCE**

Available Hands-On Programs

- Advanced Manufacturing Technology
- Electronic Engineering Technology
- Industrial Technology
- Mechatronics Technology
- Welding Fabrication & Manufacturing Technology
- Plus, much more!

**For More Information,
Visit Johnson.edu**

Financial Aid available for those who qualify.

INQUIRE NOW!



TWO CAMPUSES

SCRANTON CAMPUS
3427 NORTH MAIN AVENUE
SCRANTON, PA 18508

HAZLETON CAMPUS
370 MAPLEWOOD DRIVE
HAZLE TOWNSHIP, PA 18202

COLLEGE OF TECHNOLOGY
Johnson
COLLEGE

ALUMNI AMBASSADOR SUCCESS STORY:

ALEC CIAGLIA | Johnson College

My name is Alec Ciaglia, and I am a Johnson College class of 2022 graduate.

After high school, I attended West Chester University, located near Philadelphia, to major in marketing and spent my first two years learning the basics of business. During the first semester of my sophomore year, I signed up for an environmental engineering course as an elective and started to rethink my career decision.

I began researching different types of engineering degrees, the careers they offer and stumbled upon automation. As I started reading more about what automation could offer, I quickly made the decision to transfer schools – ending up at Johnson College where I majored in electronic engineering technology.

Johnson College provided a great hands-on learning environment that helped me better understand automation and the work I was studying and performing. As a result, I am currently employed as an electrical controls engineer at an automation and robotics company called JAM works LLC, located in Mayfield, PA. In my role, I help design electrical aspects of systems, program Programmable Logic Controller programs, wire panels and troubleshoot any issues that arise while testing robot end of arm tooling, conveyors, sensors, and switches. Each task I perform every day is one I learned while attending Johnson College. The best advice I can give to students who are coming out of high school, or currently in college, is to understand it's okay to change your mind and pursue the career that best suits you and your interests.





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ADMISSIONS@KEYSTONE.EDU or
SEAN WRIGHT | SEAN.WRIGHT@KEYSTONE.EDU
WWW.KEYSTONE.EDU



Offering more than 50 undergraduate and graduate degree options in liberal arts and science-based programs, Keystone College has long been recognized as one of the best educational values in Northeastern Pennsylvania. As the oldest academic institution in the area, Keystone has been providing students with a quality education for more than 150 years.

Located in La Plume, Pa., just 15 minutes outside of Scranton, Keystone's campus has been voted as the region's "Most Beautiful Campus." The campus features 276-acres of environmental beauty and a mixed architecture of stately Victorian homes and brick buildings. Keystone's Woodlands Campus features a stream and miles of hiking trails and offers unparalleled learning opportunities.

With intentionally small class sizes, Keystone has a reputation for creating a supportive environment to meet students' needs. Students can prepare for leadership and broaden their experiences through athletics, global learning opportunities, an extensive career development center, and countless clubs and organizations.

Through its Adult, Online, and Graduate Office, Keystone offers a variety of services to help busy working adults advance their careers through online programs, customized workforce training, self-paced courses, certificates, and workforce education.

For more than 150 years, Keystone has offered close student-faculty relationships, a welcoming campus environment, career pathways designed to enrich the lives of our students, rigorous curricula in relevant majors, and core values that promote the importance of learning.

TOP INDUSTRIAL PROGRAMS

DATA ANALYTICS | Bachelor of Science and Certificate

Prepares graduates to conduct the research that helps organizations plan new marketing strategies, make business decisions, and map out the path to future success.

SUPPLY CHAIN MANAGEMENT | Bachelor of Science

Prepares graduates to take passion for problem-solving and learn to manage complex projects that involve materials, and information finances as they move in a process from supplier to manufacturer to retail to consumer.

INDUSTRIAL - ORGANIZATIONAL PSYCHOLOGY

Online Bachelor of Science

Designed for learners who are interested in the study of human behavior in the workplace. The program explores principles of psychology and business to improve the performance and well-being of employees and employers.

COMPUTER SCIENCE | Bachelor of Science

Graduates from this program are equipped to pursue careers in software development, computer hardware engineering, system analysis, database administration, network architecture, and IT Projects. Also available is a concentration in Artificial intelligence which provides the basis for understanding cutting-edge technology.

INFORMATION TECHNOLOGY

Associate of Applied Science & Bachelor of Science

Designed for learners interested in careers in the fields across the spectrum of computing environments. The program develops skills in areas that specialize in network engineering or business information systems.

KEYSTONE PROFESSIONAL DEVELOPMENT INSTITUTE

Features a variety of opportunities for professional growth and development. These programs are credit and non-credit certificates as well as self-paced including Customer Service; Cyber Security; Operations; Leadership; Agile Project Management; etc.



Keystone College



At Keystone College, earn a degree when and where you want. Whether you want to learn about the latest technologies that are relevant to your career, pursue a master's, earn a certificate, or enjoy personal enrichment, Keystone offers many options to **advance your career** or expand your personal interests.



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graduate@keystone.edu
www.keystone.edu

NEPIRC

northeastern pennsylvania industrial resource center

JOB BOARD

Local Manufacturing Job Listings

Start your **NEW** Career in **Manufacturing** Today!



Scan the **QR Code** to begin!

WWW.NEPIRCMANUFACTURINGJOBS.com

Good For Juniors and Seniors

Lackawanna COLLEGE

**Lackawanna College
is proud to partner with
NEPIRC as we seek to fill
the workforce and
educational needs of our
manufacturers.**

Inquire about our Core Manufacturing
Certificate Program by contacting
Bridget Duggan at (570) 961-7883.

This project is financed by a grant
from the Commonwealth of Pennsylvania,
Department of Community and
Economic Development to help build higher
paying careers in the manufacturing industry.



Juniors and Seniors

Learn About Careers in Manufacturing, Earn A Special Certificate

Not sure what you are going to do after high school?
Try exploring a career in manufacturing!

Lackawanna College offers a FREE 25-hour, online program giving you the chance to earn a nationally recognized certificate as a Certified Manufacturing Associate. This program prepares you for a high demand, entry level career as a production worker, labor/warehouse worker or a manufacturing/production technician.

Classes are self-paced and can be completed in a classroom or online! You will also meet with industry experts who will talk about great opportunities in manufacturing.

At the conclusion of the program, a formal graduation ceremony will be held at Lackawanna College, where you will receive a Certificate endorsed by both Lackawanna College and NEPIRC (Northeast PA Industrial Resource Center).

Please contact **Bridget Duggan**, Youth Program Manager at **(570) 961-7883** to learn more.

Lackawanna College ... Where Education, Innovation and Community Intersect!

Recognized as “one of the world’s most innovative companies” (*Fast Company*, 2021), Lackawanna College is committed to providing industry focused, socially and economically relevant programs of study. This commitment continues with Lackawanna College’s unique Center for Technology and Innovation (CTI).

- ✓ Industry leaders hired as faculty
- ✓ Innovative and engaging curriculum built
- ✓ State-of-the-art equipment in areas like AI, VR, Robotics
- ✓ Industry sponsors secured
- ✓ Corporate training agreements in place
- ✓ World-class facility

Ready to prepare all learners for jobs of the future! Get excited for a one-of-a-kind, technology focused education in NEPA. Innovation Starts Here!

**Center for Technology Innovation - Where Education,
Innovation and Community Intersect**

**Lackawanna
COLLEGE**
Local. Affordable. Career-Focused.



SCAN FOR MORE INFORMATION



COLLEGE OF TECHNOLOGY
Johnson
COLLEGE



**Keystone
College**



**Lackawanna
COLLEGE**



 **LUZERNE**
County Community College



 **Pennsylvania
College of Technology**
A Penn State Affiliate



**Pennsylvania
College of Technology**
A Penn State Affiliate

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At Penn College, tomorrow makers are doing more than building and sharpening their skills. They're learning alongside faculty already proven in their careers, working with the latest technology, and pushing their boundaries. Students are training to master the in-demand work that tomorrow needs, the kind that drives the economy, in cutting-edge facilities on top-of-the-line equipment. Across a diverse line-up of applied technology programs and backed by 3 hours in the lab for every hour of lecture, they're becoming qualified not just to thrive in their fields, but to lead them.

Highly recruited by industry partners and motivated to impact positive change, alumni are making names for themselves across the country and around the globe. Our 96% graduate placement rate says it all. The future needs Penn College graduates.

At Penn College, exploration doesn't end with academics.

Williamsport's scenic location in rural Pennsylvania opens the door to all types of outdoor adventure. Whether it's a jaunt from campus to the Susquehanna Riverwalk, hiking in nearby state forestlands, or kayaking in local waterways, there are plenty of ways to soak in the natural beauty of the region.

TOP INDUSTRIAL PROGRAMS

WELDING & METAL FABRICATION

Bachelor's Degree, Associate's Degree and Certificate

Gain hands-on welding and fabrication skills while troubleshooting real-world challenges in our 55,000+ square-foot facility. Along with 124 individual welding booths, our cutting-edge labs are equipped with EB welders, CNC plasma cutters, robotics, and nondestructive-testing equipment.

AUTOMATED MANUFACTURING & MACHINING

Bachelor's Degree, Associate's Degree and Certificate

Hone your skills in newly renovated labs with dual-purpose machines and the latest equipment. Learning in newly designed manufacturing workspaces you'll have access to multi-axis milling and turning centers, multi-axis CNC machines, industrial robots, 3D printers and additive manufacturing machines, and tool fitting systems. Machining labs are fitted with 50 new mills and lathes, as well as cabinets stocked with drill bits, end mills, micrometers, and wrenches.

POLYMER ENGINEERING

Bachelor's Degree and Associate's Degree

Dive into extensive hands-on training in world-class polymer labs alongside industry experts. You'll learn the five major processes that are used to make everything from packaging and flying discs to energy-efficient airplane components and lifesaving medical devices. Through innovative research practices, sustainable material analysis and access to exceptional networking opportunities you'll be primed to make a positive impact on the world.

ELECTRONICS & COMPUTER ENGINEERING TECHNOLOGY

Bachelor's Degree and Associate's Degree

Blend theory with hands-on experiences in electronic circuits and devices, robotics and automated systems, vision and motion control, and more. Choose from a host of interconnected, yet diverse majors ranging from automation engineering and computer engineering to electronics and robotics. You'll work with complete industrial systems that include sensors and robotic arms, conveyor systems, PLCs, and more.

TOMORROW NEEDS YOU.

→ TOMORROW NEEDS YOU.

MILLIONS OF TECHNICALLY SKILLED POSITIONS go unfilled each year. But they don't have to.

It's time to close the gap. Across essential fields from manufacturing and electronics to plastics and welding, forward thinking students are training to pave the way. They're building the skills to make their marks and strengthen our nation's workforce. They are the future. And you can be too.



Join us at pct.edu.



**Pennsylvania
College of Technology**
A Penn State Affiliate

MANUFACTURING COMPANIES THAT OFFER TUITION REIMBURSEMENT

Company	County	Company	County
Alleima USA, LLC	Lackawanna	Milco Industries, Inc.	Columbia
Amcor Flexibles North America, Inc.	Luzerne	Monadnock Non-Wovens	Monroe
Arrow United Industries	Bradford	Nardone Brothers Baking	Luzerne
Barry Callebaut	Lackawanna	Olympia Chimney & Venting	Lackawanna
Benco Dental	Luzerne	Onsemi	Luzerne
Berry Global	Luzerne	Pactiv Evergreen	Luzerne
Benton Foundry, Inc.	Columbia	Patriot Metal Products, Inc.	Columbia
Bridon-Bekaert Ropes Group	Luzerne	Pennsylvania Extruded Tube Company	Lackawanna
Cardinal Glass Industries	Lackawanna	Post Consumer Brands	Columbia
Cheetah Chassis Corp	Columbia	PowerRail	Luzerne
Collins Aerospace an RTX Company	Monroe	Progressive Converting - "ProCon"	Luzerne
CornellCookson, LLC	Luzerne	Rowlands Sales Company, Inc.	Luzerne
Design Group Americas	Luzerne	Royal Chemical Co.	Monroe
E-Tech Industrial Corp.	Bradford	PSA	Luzerne
Forbo Flooring Systems	Luzerne	SCHOTT North America, Inc.	Lackawanna
General Dynamics Land Systems	Lackawanna	SEKISUI KYDEX	Columbia
Gentex Corporation	Lackawanna	Signode	Luzerne
GHC	Lackawanna	SIMONA AMERICA	Lackawanna
Gonnella Frozen Foods	Luzerne	Simplex Industries, Inc.	Lackawanna
Graphic Packaging International	Luzerne	Slocumb Windows and Doors, Inc.	Luzerne
Greiner Packaging	Luzerne	Specialty Roller and Machine, Inc.	Columbia
Hayden Power Group	Columbia	Techniserv	Columbia
Hendrick Manufacturing Company	Lackawanna	The AZEK Company	Lackawanna
Henkel West Hazleton	Luzerne	The Lion Brewery, Inc.	Luzerne
Hydro Extrusions	Luzerne	The Procter & Gamble Paper Products Company	Wyoming
IG Design Group Americas	Columbia	The Wenger Group	Susquehanna
InterMetro Industries	Luzerne	Truck-Lite Co., LLC	Tioga
International Paper - Hazleton Container	Luzerne	UGL	Lackawanna
Kawneer	Columbia	Ultra-Poly Corporation	Monroe
KBS Innovations	Luzerne	United Envelope	Monroe
Koehler-Bright Star, LLC	Luzerne	Victaulic	Tioga
LDP, Inc.	Luzerne	Wabtec Components (G & B Specialties)	Columbia
Loh Enterprises, LLC	Lackawanna	Ward Manufacturing, LLC	Tioga
Mactac	Lackawanna	Weiler Abrasives Group	Monroe
Mitsubishi Chemical Group	Lackawanna	Woodhouse Post & Beam Homes, Inc.	Tioga
MegaPhase	Monroe		

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ADMISSIONS@LUZERNE.EDU
WWW.LUZERNE.EDU



Luzerne County Community College (LCCC), established in 1967, is a publicly supported, two-year community college located in Luzerne County, Pennsylvania.

With its main campus in Nanticoke and satellite campuses and training centers in Berwick, Hazleton, Pittston, Scranton, Shamokin, Watsontown and Wilkes-Barre, LCCC makes training for a career in advanced manufacturing convenient, accessible and affordable.

"A number of welding students from Luzerne County Community College have joined Cheetah Chassis over the past several years. The students are prepared to embark on a career path in welding after learning the fundamentals at Luzerne. We are happy to partner with them in providing employment opportunities to their graduates."

– Garry Hartman, CEO at Cheetah Chassis

"I am a second-year HVAC female international student and proud to be part of the LCCC family. The faculty are very helpful. I started at LCCC knowing very little English and limited knowledge of what a fitting is. Now I can install boilers, water heaters and handle many plumbing and heating projects. Most girls don't choose the trades as their career choice, but they should. There are many great career opportunities and it's a lot of fun."

– Maia Lukuridze, Student at LCCC

LCCC's connectivity with the regional business community - and especially its regional manufacturers - means that graduates receive priority interviews and placements within area advanced manufacturers. Those seeking employment outside of the area can benefit from LCCC.

ADVANCED MANUFACTURING

One Year Industry Certificate

Graduates of the Advanced Manufacturing Certificate Program will be able to install, troubleshoot, repair, and maintain the various systems in manufacturing/production facilities. Designed to integrate theory with extensive hands-on experience, students will gain knowledge and skills in a variety of technologies including plumbing, heating/air conditioning, electrical systems, instrumentation, and welding. Students will also learn basic machining techniques in Luzerne County Community College's state-of-the-art Precision Machining Laboratory as well as prototyping/modeling using Auto-CAD® 2D and 3D in the College's Engineering Design & Manufacturing Laboratory.

CYBERSECURITY & NETWORKING

Associate of Applied Science (A.A.S.)

Prepares students with the skills necessary to work as a support technician within organizations that provide and utilize diverse IT infrastructures. This extensive hands-on curriculum utilizes essential diagnostic hardware and cusoftware development tools. The curriculum focuses on building critical thinking and problem-solving skills with an emphasis on practical applications. Students will refine their skills in the areas of operating systems, computer networks and data security. The program will also prepare a student for further studies and/or certification in areas such as network engineering, information security assurance, forensic computer analysis and advanced cyber security.

ELECTRONICS ENGINEERING TECHNOLOGY

Associate of Applied Science (A.A.S.) or One Year Industry Certificate

Prepares students with a comprehensive understanding of the principles of electricity, microcomputers, communications, and industrial electronics. Designed to integrate theory with extensive hands-on experience, students will gain knowledge and skills in a variety of technologies including Electrical Technology, Electrical Engineering Design, Robotic Automation, Advanced Mechanical Technology. This program emphasizes practical skill sets and state of the art applications. Graduates will be able to install, operate, troubleshoot, repair, and maintain electrical/electronic equipment. At the completion of this program, students will be able to install, operate, repair, and maintain electrical/electronic equipment.

Continued on next page »



TRADE & TECHNOLOGY PROGRAMS continued

HVAC TECHNOLOGY

One Year Industry Certificate

Prepares students to be HVAC technicians by a hands-on learning approach. The program exposes students to modern and emerging modern equipment and technology. Practical training with various types of heating and air conditioning systems is provided. Gas and oil boilers and furnaces will be introduced. Controls for warm-air, air conditioning and many types of hydronic systems are covered.

WELDING

One Year or One Semester Industry Certificates

This program provides instruction in the fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety, basic oxyacetylene welding, and cutting. Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), and Gas Metal Arc Welding (GMAW) processes are also covered and practiced in a large well-equipped Welding Laboratory.



READY

to Build & Create
LUZERNE.EDU

Technology and Manufacturing

Advanced Manufacturing
Architectural Engineering
Audio/Video Communications
Automotive Technology
Building Maintenance
Computer Information Systems
Computerized Numerical Control (CNC)
Cybersecurity & Networking
Diesel Truck Technology
Digital Marketing
Electrical Construction
Electronics Engineering Technology
Engineering Design & Manufacturing
Industrial Maintenance
Integrated Media and Design
Mechatronics
Nanofabrication Manufacturing Technology
Plumbing, Heating & Air Conditioning
Pre-Engineering
Welding

**BUILD YOUR FUTURE!
LCCC OFFERS MANY
DEGREES IN
TECHNOLOGY AND
MANUFACTURING**

**THESE DEGREES
LEAD TO WELL
PAYING CAREERS
YOU CAN ENTER
IMMEDIATELY**

ALUMNI AMBASSADOR SUCCESS STORY:

RYAN EVANS | LCCC

Though I'm now in the process of finishing a third degree – my master's – it all starts with Luzerne County Community College. It's not only the foundational skills I gained in the classrooms, but the sense of self and the confidence that was fostered by the staff and administration that has allowed me to truly become a Trailblazer in my own right. My degree from LCCC in journalism/digital media writing gave me all the tools I needed to unexpectedly land a job that I love with unbridled room for career growth.



I write every day for a living, which has been a dream of mine since I was a boy, but it's so much more than that. Interpersonal skills abound, and I owe it all to LCCC. They're the reason I succeeded after the military and now have a career that not only allows me to utilize the full skillset I cultivated but affords me some economic mobility as a first-generation college graduate. They're the reason I'm in a STEM degree program now at a top 10 university because they believed in me and taught me to believe in myself.

If I had any advice for current students, whether they're considering a manufacturing career or not, it would be to follow your heart. There really is no limit to what kind of roles you can have in manufacturing, just like there is no limit to what LCCC graduates can accomplish.



NEPIRC DREAM TEAM

NEPIRC's Manufacturing Ambassador Dream Team consists of a select group of approximately 30 young professionals representing 25 manufacturing companies across northeastern, northern and north central Pennsylvania.

The Dream Team is a well-rounded group of HR professionals, process engineers, project managers, quality managers and many other positions who are well-equipped with various skill sets and levels of education.

Each Dream Team member has his/her unique career journey to share with students, but all share a passion for their manufacturing careers and companies in which they work.

The Dream Team will:

CONNECT students to young manufacturing professionals to learn about manufacturing career experiences.

HIGHLIGHT the many opportunities that careers in manufacturing provide.

BUILD career awareness of local manufacturing job openings.

SHOWCASE the cool products made in PA.



To learn more about NEPIRC's Manufacturing Ambassador Dream Team or to schedule an in-school speaking engagement, contact Jenelle Osborne, NEPIRC's Dream Team Coordinator, at Jenelle@NEPIRC.com or call 570.819.8966 ext. 114.

www.NEPIRCDreamTeam.com



WHAT MAKES MANUFACTURING A **SUPER** CAREER CHOICE?

GOOD-PAYING JOBS WITH **GREAT BENEFITS** TOO!



90% OF MANUFACTURING ASSOCIATES HAVE ACCESS TO **HEALTH CARE COVERAGE** FOR THEMSELVES & THEIR FAMILIES!

84% OF MANUFACTURING ASSOCIATES HAVE ACCESS TO AN EMPLOYER-SPONSORED **RETIREMENT PLAN!**

95% OF MANUFACTURING ASSOCIATES ENJOY **PAID VACATION TIME!**

81% OF MANUFACTURING ASSOCIATES ENJOY **PAID SICK LEAVE!**

TO LEARN HOW A CAREER IN MANUFACTURING CAN BENEFIT YOU AND YOUR FAMILY
VISIT WWW.NEPIRC.COM/MANUFACTURINGJOBS

SOURCE: DELOITTE CONSULTING REPORT, 2022



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DREAM TEAM

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