



Future YOUR
IN

ARCHITECTURAL TECHNOLOGY

The profession of architecture touches everyone's life and is central to solving problems in the creation of a built environment. Architectural technicians are problem solvers who work with clients on the design of buildings. They also create plans and specifications that direct the construction of a building and coordinate the work of other professional consultants and engineers. Managing information and responding to the many diverse requirements of governments, building conditions, and society is increasingly important in the construction industry. The architectural profession is rapidly integrating the technology of computers and automation to assist in the management of information and to free up time for creative work.

The instruction in Architectural Technology at Thaddeus Stevens College prepares students to become qualified for employment in the architectural profession and to transfer into architectural programs in nationally-accredited universities. The instruction also provides retraining in technological applications for people currently employed in or reentering the profession.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- BIM Technician
(Building Information Modeling)
- CAD Technician
(Computer-Aided Design)
- VDC Technician
(Virtual Design and Construction)
- Facility Designer
- Design Professional
- Project Manager

\$50,000

First-Year
Average Salary

88.2%

In-field
placement rate

TAKE THE NEXT STEP

Founded in 1905, Thaddeus Stevens College of Technology is an acclaimed residential two-year college accepting students from throughout the state of Pennsylvania as well as veterans, members of the armed forces, and their families. As an accredited technical college, we are dedicated to preparing students for high-demand careers with family-thriving wages.



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750 E. King St, Lancaster PA

FINANCIAL AID

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- financialaid@stevenscollege.edu
- Hartzell Building, Room 105
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Graduates of this program work in the Architectural, Engineering, and Construction (AEC) industry and can also transfer into programs in nationally accredited universities.



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AUTOMOTIVE TECHNOLOGY

Automotive Technology is designed to give students a basic understanding of automotive construction, theory of operation, and standard industry service and repair procedures. This instruction gives them not only the knowledge to perform vehicle service but to develop the skills necessary to diagnose unit malfunctions. Two of the most important skills that will be developed are problem solving and critical thinking.

Students will diagnose and repair common malfunctions of the following automotive systems: engine lubrication and cooling; brake, suspension, steering, wheels and tires, electrical (including wiring, batteries, starting, charging, and ignition), fuel, onboard electronics/computers, and engine assemblies; and power train components including manual and automatic transmissions and transaxles.

In addition, students develop the knowledge and skills to operate the latest generation of computerized test and diagnostic equipment, including digital storage lab scopes, onboard scan tools, and a chassis dynamometer, as well as develop skills in the safe operation of a chassis dynamometer.

Thaddeus Stevens College of Technology is ranked No. 10 on Best Accredited Colleges' list of Best Associate Degrees in Automotive Technology in its 2022 rankings.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Automobile Mechanic
- Automotive Drivability Technician
- Automotive Mechanic
- Automotive Service Technician
- Heavy Line Technician
- Lube Technician
- Master Automotive Technician
- Quick Service Technician
- Service Technician

\$47,500

First-Year
Average Salary

70%

In-field
placement rate

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This program gives students not only the knowledge to perform vehicle service but to develop the skills necessary to diagnose unit malfunctions.



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BUSINESS ADMINISTRATION

All employers need highly skilled business personnel to keep their operations running smoothly and successfully. Dynamic careers in business are available in virtually every sector of the economy. Job openings are plentiful, working conditions are comfortable, and opportunities for advancement are within reach for those with a two-year degree.

The Business Administration program at Thaddeus Stevens College provides students with the marketable skills, academic background, and experience required to meet the needs of the workforce or transfer to a four-year university. The broad-based curriculum is designed to prepare recent high school graduates or those re-entering the workforce to reach their full potential in many varied business fields. Faculty are focused on training students to manage rapidly changing technology, lead and motivate others, prepare and analyze financial information, and succeed in the global marketplace. Entry-level job titles for recent graduates include sales and service account manager, accounts payable and receivable clerk, administrative assistant, public relations coordinator, operations coordinator, small business owner, human resources assistant/specialist, and facility supervisor.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



- SAMPLE JOB TITLES**
- Administrative Assistant
 - Accounts Receivable Assistant
 - Customer Service Representative
 - Engagement Coordinator
 - Internal Service Advisor
 - Inventory Control Clerk
 - Payroll Specialist
 - Scheduler
 - Testing Coordinator

\$47,500

First-Year Average Salary

70%

In-field placement rate

TAKE THE NEXT STEP

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Those graduating from the Business Administration program have wide opportunities available to them, as well as easy footing for further education.



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CABINET MAKING & WOOD TECHNOLOGY

The woodworking industry have revealed the number one concern facing the industry for the 21st century is the lack of skilled and motivated workers. There is a continual need in the furniture, kitchen cabinet, and architectural millwork industries for persons possessing the skills and knowledge required to produce high quality wood products.

The Cabinetmaking and Wood Technology program is committed to continually providing students with the skills and knowledge required for rewarding jobs in the various woodworking industries. Based upon the belief that students learn best by working on projects, this program is strongly project-oriented. Hence, students will produce several pieces of fine furniture after which they will further develop and display their skills by producing an advanced wood project of their choosing. Through the use of the College's housing project, students will learn to list and produce all the millwork items required for a residential house.

Additionally, students will design, produce, finish, and install a complete kitchen and the required bathroom vanities to complete the housing project. Through the use of lectures, demonstrations, and the above projects, the program faculty feels they can best prepare students for careers in any of the three major woodworking fields: fine furniture, architectural millwork, and kitchen cabinetry.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Lead Cabinetmaker
- Cabinet Assembler
- Cabinet Installer
- Furniture Maker
- Millworker

\$45,000

First-Year
Average Salary

81.8%

In-field
placement rate

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Finding work directly in commercial or residential construction, this program prepares students to be successful framers, woodworkers, and cabinet builders.



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CARPENTRY TECHNOLOGY

The Carpentry Technology program provides carpentry students with a positive and professional experience. By using the most up-to-date equipment and the newest technology, program faculty strive to always run parallel with the present-day building industry. Students receive two years of excellent training that sufficiently prepares them for the residential and light commercial construction workforce. Skills include:

- Write clear, concise, legible, and accurate technical reports and be skilled in oral communication related to the construction industry.
- Demonstrate the basic manipulative skills of the trade that are necessary in laying out work, planning, erecting, and framing.
- Interpret and prepare plans, drawings, codes and specifications, lines, symbols, and abbreviations on working drawings or blueprints.
- Analyze specifications and contract drawings as well as make accurate quantity take-offs and labor estimations to develop an estimated construction cost for a building project.

And much more!

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

Assembler
Bridge Carpenter
Bridge Repair Crew Person
Cabinet Maker
Carpenter
Concrete Carpenter
Construction Worker
Form Carpenter
Framer
Rough Carpenter

\$45,500

First-Year
Average Salary

91.3%

In-field
placement rate

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SAMPLE JOB TITLES

- Assembler
- Bridge Carpenter
- Bridge Repair Crew Person
- Cabinet Maker
- Carpenter
- Concrete Carpenter
- Construction Worker
- Form Carpenter
- Framer
- Rough Carpenter

\$45,500

First-Year
Average Salary

91.3%

In-field
placement rate

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COMPUTER INTEGRATED MACHINING

Students in Computer Integrated Machining will spend considerable time in the study and operation of machine tools to develop skills used by machine shops and other manufacturing facilities. This includes an emphasis on the set up and operation of computer numerical controlled (CNC) lathes and milling machines. Students will also be introduced to computer-controlled measuring machines and computer-aided design/computer-aided machining (CAD/CAM) software and its applications. A strong project, method-driven curriculum assures both theoretical and practical skill development.

This program prepares students to enter the workforce fields of CNC programming, CAM tool making, mold making, machine tool setup and operation, quality control, industrial sales, and production manufacturing. Scan here to check out our Instagram page to see what we are making in the lab.



SAMPLE JOB TITLES

CNC Programmer
CNC Machinist
Machinist
Tool & Die Maker

\$52,500

First-Year
Average Salary

100%

In-field
placement rate

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GE Aerospace



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CIVIL ENGINEERING CONSTRUCTION TECHNOLOGY

The heavy civil engineering construction industry provides tremendous career advancement, including transformational financial growth.

The theory and hands-on field portions of this program will allow students to develop the skills to work in the construction of roadways, municipal and state infrastructure projects, underground utilities, horizontal site development, and construction of water and wastewater infrastructures.

If you like to work outside with innovative equipment, civil construction is right for you. There will also be opportunities to gain field experience during a summer internship.

Students in this program will learn to:

Prepare construction schedule from detailed drawings and structural features of highways, bridges, or drawings used in civil engineering projects. Use knowledge of heavy civil construction processes, procedures, uses of building materials, aggregates and engineering practices to work in the construction of roadways, municipal and state infrastructure, underground utilities, energy, horizontal site development, materials production and application, and construction of water and wastewater infrastructures.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Field Technician
- Paving Crew Member
- Pipe Layer
- Bridge Crew Member
- Junior Project Manager
- Junior Estimator, Pipe Foreman
- Horizontal Construction Foreman
- Paving Superintendent
- Bridge Superintendent/Project Manager
- Project Foreman
- Associate Heavy Civil Engineer
- Field Engineer

\$55,750

Median Salary
in Pennsylvania

100%

In-field
placement rate

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COLLISION REPAIR TECHNOLOGY

Students will be instructed in a series of I-CAR courses in Non-Structural ProLevel 1 and Refinishing ProLevel 1, the industry standard for collision repair training. Students graduate with a variety of nationally recognized Platinum certificates from I-CAR. This program aligns with collision repair businesses needing to hire employees to maintain or become I-CAR Gold Class Professionals. This program makes students proficient at entry-level tasks. Students also have the opportunity to become certified as ASE Master Technicians. The Collision Technology Repair program is dedicated to providing the most current and complete information, knowledge and skills required to perform complete, safe and quality repairs. Thaddeus Stevens College of Technology provides you with comprehensive training and industry-recognized credentials for a successful career in collision repair

Students in this program will learn to:

- Use collision repair tools and equipment safely and effectively
- Analyze the structural design of a vehicle and its reaction to an impact
 - Repair damaged metal
 - Refinish vehicles
 - Install panels
- Repair frame damage

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Auto Body Man
- Auto Body Repair Technician
- Auto Body Repairman
- Automotive Body Technician
- Body Man
- Body Technician
- Collision Repair Technician
- Collision Technician
- Frame Man
- Refinish Technician

\$37,500

First-Year
Average Salary

90%

In-field
placement rate

TAKE THE NEXT STEP

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COMPUTER & NETWORK SYSTEMS ADMINISTRATION

The Computer and Network Systems Administration program prepares students for employment in a wide variety of positions in the information technology field. Students work in a "live" network environment, managing their own servers, clients, routers, and switches by applying concepts learned in the theory classroom. The combination of theory and hands-on lab exercises allows CNSA students to acquire comprehensive skills in the following technical areas: The internal operation of personal and server computer systems; the physical infrastructure of local and wide area networks; the design and management of computer networks; the administration of Microsoft Windows and non-Windows server and client operating systems; the design and development of Windows-based and web-based applications; the management and design of relational databases; and the integration of enterprise software applications to solve business problems.

Upon completion of the program, graduates of the CNSA program have obtained employment in information technology as systems administrators, network administrators, network technicians, PC technicians, help desk analysts, systems engineers, application programmers, web application developers, web administrators, database administrators, and sales engineers.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Systems Administrators
- Network Administrators
- Network Technicians
- PC Technicians
- Help Desk Analysts
- Systems Engineers
- Application Programmers
- Web Application Developers
- Web Administrators
- Database Administrators
- Sales Engineers

\$62,500

First-Year
Average Salary

86.7%

In-field
placement rate

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COMPUTER SOFTWARE ENGINEERING TECHNOLOGY

Computers have become a major factor in the development and operation of the modern industry. From providing means of communications, to operating machines, to facilitating international commerce, to systems animation, computers and their related software programs makes things possible.

The Computer Software Engineering Technology program prepares students to design, develop, and build customized software programs for specific applications. Specifically, students will learn basic programming, how to interpret specifications, application of software architecture, verification and validation principles, and software performance standards. Students will create software programs which address known specifications. The program emphasizes a practical hands-on education as software projects are required each semester.

Upon completion of the program, graduates will find a wealth of employment opportunities in a variety of businesses and industries. Unlike some disciplines which are tied directly to a specific technical area, graduates of this program will work in small businesses, large industries, private organizations, software specialty businesses, IT Department, Government, and other agencies.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Application Developer
- Application Integration Engineer
- Developer
- Infrastructure Engineer
- Network Engineer
- Software Architect
- Software Developer
- Software Development Engineer
- Software Engineer
- Systems Engineer

\$52,500

First-Year
Average Salary

63.6%

In-field
placement rate

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DIESEL TECHNOLOGY

The Diesel Technology program is designed to prepare students to enter the workforce as diesel technicians. This associate degree provides students with a solid, fundamental understanding of diesel equipment, operational theory, and industry standard service and repair procedures.

The curriculum taught offers both classroom instruction and hands-on lab opportunities for students to develop technical and diagnostic skills. Students will also develop problem solving and critical thinking skills which are important traits for professionals working in this field. All classes are held at the Thaddeus Steven's Transportation Center, our state-of-the-art lab and training facility.

Diesel technology students will learn to:

Diagnose and repair common malfunctions in diesel systems, Apply physics and scientific principles to diesel equipment when performing in-shop testing exercises and diagnostic procedures, Demonstrate shop management practices including customer relations, shop procedures and repair orders.

As a diesel technician, prepare to become a LIFELONG LEARNER.

With the industry of diesel technology ever-changing, our graduates are encouraged to continue training to keep up to date with technical advancements. Our graduates work with: Heavy Duty Trucks and Trailers Coach, Transit and School Buses Fleet Service, Construction Equipment, and Agricultural Equipment

SAMPLE JOB TITLES

- Bus Mechanic
- Diesel Mechanic
- Diesel Technician
- Fleet Mechanic
- General Repair Mechanic
- Mechanic, Service Technician
- Trailer Mechanic
- Transit Mechanic
- Truck Mechanic

\$45,000

First-Year
Average Salary

87.5%

In-field
placement rate

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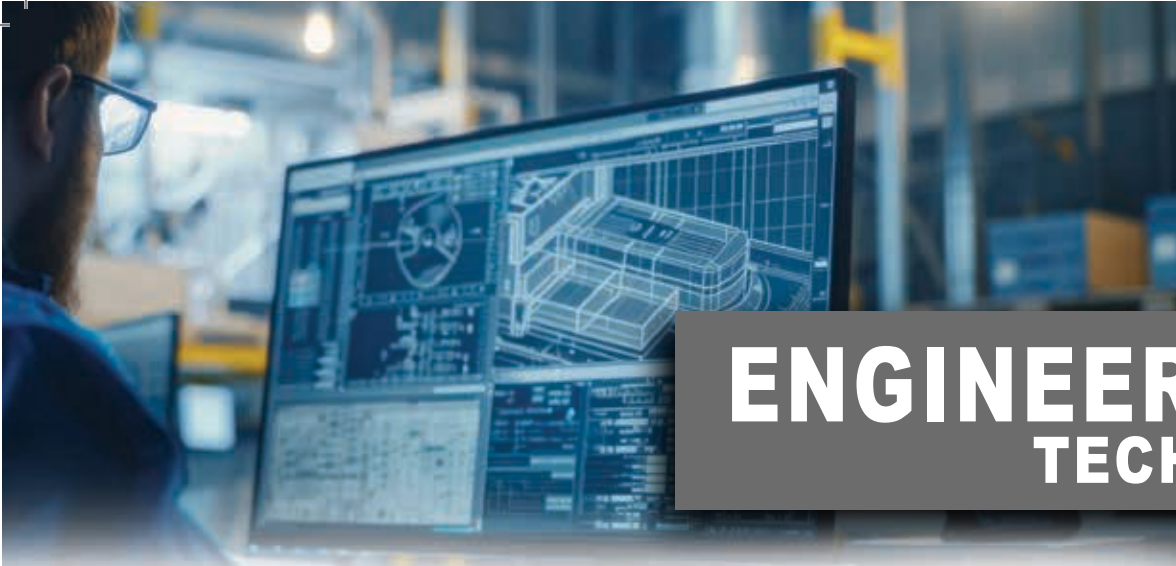
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ENGINEERING CAD TECHNOLOGY

The Engineering Computer-Aided Drafting (ECAD) Technology program prepares graduates for positions as entry-level CAD operators in a wide range of manufacturing and engineering industries. Skills acquired from this program of study will allow students to become an integral part of product design and the manufacturing of those products. Graduates will apply specialized knowledge and skills utilizing state-of-the-art CAD software to think critically, to solve problems, and effectively communicate with colleagues and supervisors in today's ever-changing work environment.

From preliminary drawings and sketches to parametric design, to animated assemblies, graduates will learn how to simplify, enhance, and streamline the manufacturing and engineering processes utilizing CAD. Students acquire comprehensive skills in the following technical areas: fundamentals of drafting, technical drawing, process pipe drafting, processes of manufacturing, geometric dimensioning and tolerancing (GD&T), metals fabrication drafting, and power transmission. Students' CAD skills are developed with a comprehensive exposure to the latest software releases of AutoCAD®, Autodesk Inventor®, SolidWorks®, and Creo®.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Mechanical Drafter
- Designer
- Drafter
- Design Drafter
- Mechanical Designer
- CAD Designer
- CAD Operator
- CAD/CAM Specialist
- Project Designer
- Installation Drafter

\$57,500

First-Year
Average Salary

82.4%

In-field
placement rate

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ELECTRICAL TECHNOLOGY

Electrical Technology provides the opportunity to acquire the theory and skills needed to gain entry-level employment and advancement at an accelerated pace in the electrical field. Students will be able to apply basic electrical theory to all aspects of electrical technology. Skills and safe working habits are developed through construction and maintenance work project assignments. Since electricity has become an integral part of everyday life, an adequate supply of electrical power is necessary, as well as a reliable system for efficient utilization; thus, there is a continuing need for qualified electrical technicians.

Graduates' knowledge and skills are useful in such career areas as electrical engineering technicians, power plant technicians, electrical construction, industrial maintenance, and as technical representatives. High school prerequisites for this program are Algebra I & II, and a GPA of at least 2.5.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Chief Electrician
- Control Electrician
- Electrician
- Industrial Electrician
- Inside Wireman
- Journeyman Electrician
- Journeyman Wireman
- Maintenance Electrician
- Mechanical Trades Specialist

\$70,000

First-Year
Average Salary

100%

In-field
placement rate

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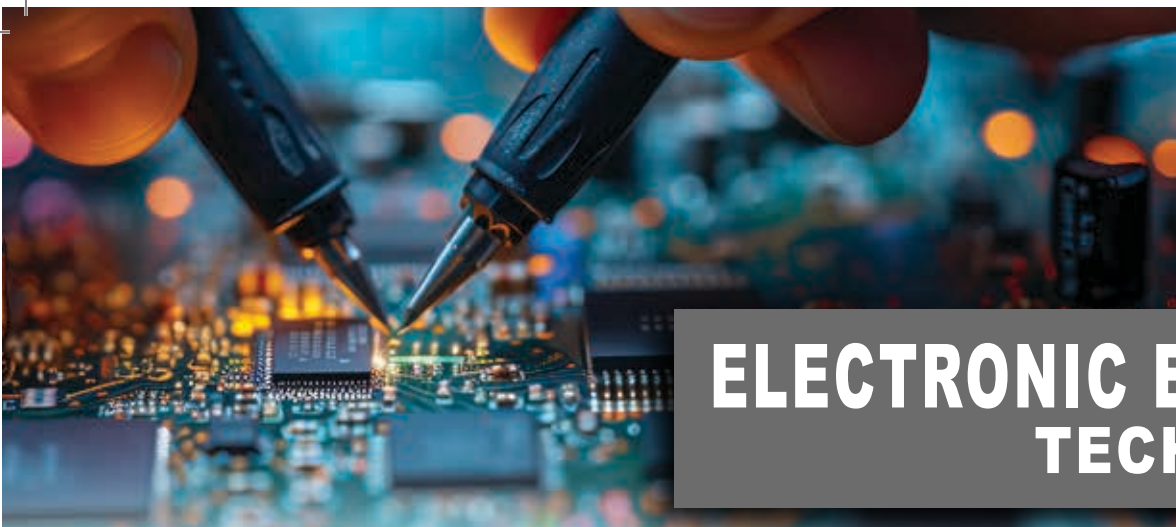
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ELECTRONIC ENGINEERING TECHNOLOGY

Electronic Engineering Technology provides the opportunity to acquire the skills needed to gain employment as an engineering technician in manufacturing and industry. Skills are developed by theoretical analysis and by the use of manipulative practice in the laboratory. The program gives students a broad theoretical and practical background in analog and digital electronic circuits. Graduates of the Electronic Engineering Technology program are prepared to find employment as technicians with the ability to prototype, to test, to program, to integrate, to install, to maintain, and to repair electronic systems. Because of the use of electronics in most industries, many employment opportunities in varied environments exist.

Students will analyze, design, construct and integrate components and circuits of various types. Throughout this program, students will demonstrate a basic knowledge of analog and digital electronics, logic circuits, microprocessors, and programmable automation controllers (PACs) in addition to solving math problems related to circuit analysis, digital electronics, and other systems.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Communications Technologist
- Electrical Engineering Technician
- Electrical Technician
- Electronics Engineering Technician
- Electronics Technician
- Engineering Technician
- Engineering Technologist
- System Technologist
- Technologist

\$62,500

First-Year
Average Salary

86.7%

In-field
placement rate

TAKE THE NEXT STEP

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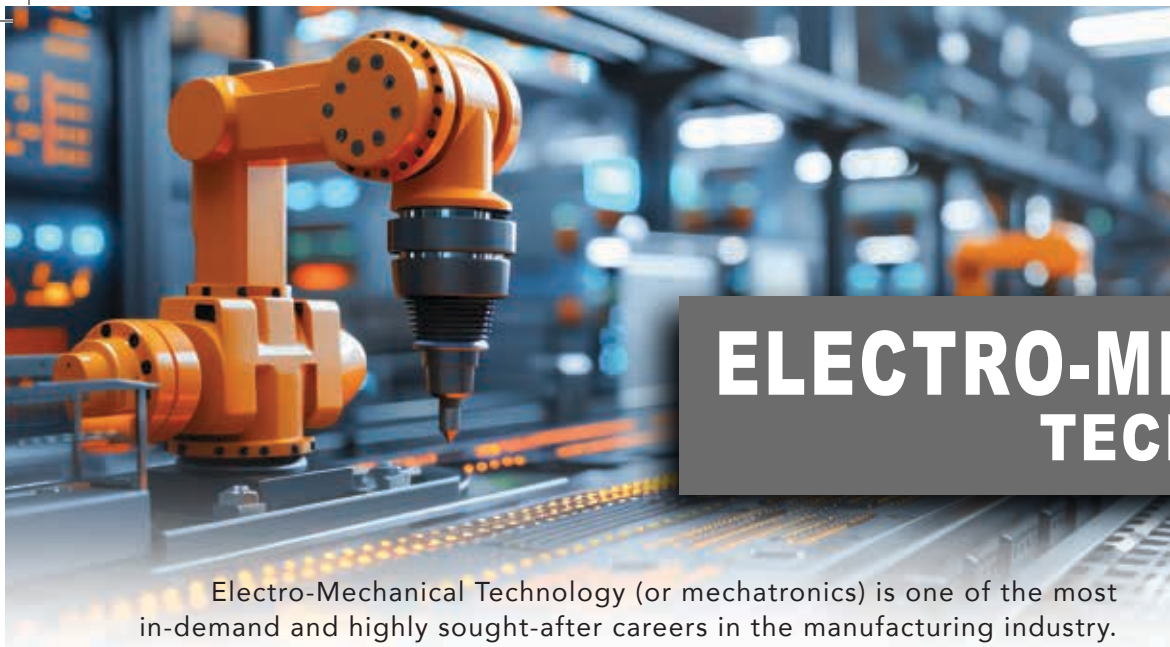
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ELECTRO-MECHANICAL TECHNOLOGY

Electro-Mechanical Technology (or mechatronics) is one of the most in-demand and highly sought-after careers in the manufacturing industry. The combination of electrical and mechanical skills based in computer-aided drafting, and machine technology create a unique blend of knowledge desirable to industry. These technicians are trained in a variety of skill areas, allowing companies to utilize their knowledge for a vast array of technical and mechanical issues. When everyday issues arise that could cost a company revenue when they occur, having a multi-skilled technician on staff that can address issues immediately allows companies to continue production at a minimal loss. Electro-mechanical technicians have become essential positions in the manufacturing industry.

Students in ELME learn to install, maintain, repair, and improve all aspects of industrial machines. The program teaches the fundamentals of mechanical systems (including hydraulics, pneumatics, and electric motors) as well as the electrical systems that control these machines. The second year of the program also places a strong emphasis on the programming, operation, and maintenance of industrial robots. Students perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of a building in repair. Duties may involve pipe fitting; HVAC maintenance; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Electrical Technician
- Industrial Technician
- Controls Technician
- Mechatronics Technician

\$72,500

First-Year
Average Salary

100%

In-field
placement rate

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GRAPHIC COMMUNICATIONS & PRINTING TECHNOLOGY

The Graphic Communications and Printing Technology program provides a comprehensive understanding of the printing process and related fields. The student receives training in all major areas, with preparation to enter one of several printing fields, depending on interest and ability.

Students have the opportunity to design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos all while exploring the variety of mediums available to achieve desired artistic or decorative effects.

Graduates with technical and mechanical interests find employment in desktop publishing, pre-press, presswork, and bindery operations. Skills in computer operations, electronics, photography, chemistry, and physics will also be useful in these areas.

Graduates with good English and math skills will find employment in proofreading, estimating, production planning, and sales. Those students with artistic talent may enter layout and design, advertising, or commercial art.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Graphic Designer
- Graphic Artist
- Designer
- Creative Director
- Artist
- Design Director
- Composing Room Supervisor
- Creative Manager
- Desktop Publisher
- Graphic Designer/Production

\$37,500

First-Year
Average Salary

91.7%

In-field
placement rate

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HEATING, VENTILATION AND AIR CONDITIONING, REFRIGERATION

The HVACR program is unique because it treats designing, retrofitting, testing, and troubleshooting on a problem-solving level. This specialized program prepares the technician for the fast-growing, highly technical HVACR field.

Students will learn how to interpret wiring schematics and install high and low voltage control wiring. Braze, solder, seal, and thread various piping. Install, test, and troubleshoot various HVACR systems. Understand the principles behind the psychrometrics and thermodynamics of an HVACR system.

Understand the various refrigerants in the industry and how to charge and reclaim them. Understand and use the various tools of the industry. Understand the principles of ventilation and HVACR controls.

In addition to HVACR classroom theory sessions, students also perform service and installation on numerous live projects on and off-campus. The HVACR laboratory includes tools, equipment, computers, and instrumentation typically found in commercial, residential, and industrial settings. The lab also includes ground and air source heat pumps, oil and gas-fired furnaces, gas and oil boilers (hydronics), duct fabrication machines, air conditioning and mini-split systems, walk-in boxes, roof-top equipment, chiller systems, and commercial refrigeration trainers and systems.

SAMPLE JOB TITLES

HVAC Service Technician
Refrigeration Technician
HVAC Installer
HVAC Specialist
HVAC Technician
HVAC Mechanic

\$57,500

First-Year
Average Salary

91.7%

In-field
placement rate

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MASONRY CONSTRUCTION TECHNOLOGY

Masonry Construction Technology provides the opportunity to develop the skills to become proficient in Masonry, starting with the spreading of mortar to the complex construction of interior and exterior fireplaces and Architectural accents. The student's skills are developed through practicing and building projects, in-class theory lectures, and instructor demonstrations. Faculty members use various teaching methods such as films, hands-on projects, team-building development, field trips, and house-building projects to enhance skills in all trade aspects.

Since a large part of masonry work is found in decorative and functional aspects of construction, there is a special emphasis placed on appreciation of the beauty and permanence of each type of brick, stone, and other masonry materials. The student will leave the course with a strong development of time management and the value of good workmanship. This gives the students a great foundation that can lead to employment, either with commercial masonry construction firms, residential masons, hardscaping, or even use these skills towards being self-employed.

SAMPLE JOB TITLES

- Block/Brick Layer
- Concrete Finisher
- Hardscape Mason
- Job Foreman
- Mason Tender
- Operator
- Restoration Technician
- Scaffold Erector
- Sealant Installer
- Stone Mason
- Superintendent
- Water Proofer

\$42,500

First-Year Average Salary

80%

In-field placement rate

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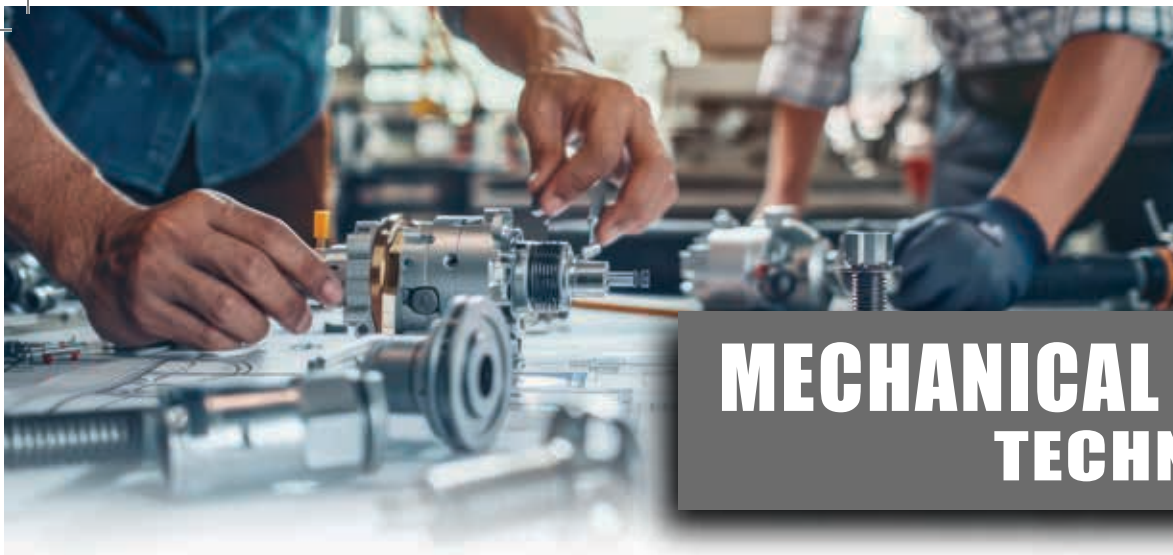
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MECHANICAL ENGINEERING TECHNOLOGY

The Mechanical Engineering Technology program prepares graduates for entry-level employment in the Mechanical Engineering field. The skills acquired from this course of study allow the student to visualize objects in three dimensions, describe objects with manual and Computer-Aided Drafting (CAD) techniques, and apply Mechanical Engineering principles to design products, tools, and equipment for a manufacturing-oriented industry. The program's affiliations with industry are maintained through an Advisory Committee and the Society of Manufacturing Engineers (SME).

The student's skills are developed with a comprehensive exposure to the concepts of orthographic projection, sectioning, and isometric drawing with an emphasis on instrument drawing techniques. A thorough understanding of Geometric Dimensioning and Tolerancing (GD&T) and a demonstrated proficiency with the latest CAD software complement these skills. Additional training in Fabrication Principles, Mechanical Design, Product Design, and Manufacturing Processes provides a well-rounded experience with mechanical design and manufacturing technology.

Upon entering the work place, the graduate can expect to assist engineers and scientists in the design and development of new products. As work experience is acquired, the graduate can expect to gain more design responsibility and thereby become a key member of an engineering team.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Engineering Technician
- Mechanical Designer
- Research & Development Technician
- Engineering Lab Technician
- Equipment Engineer
- Process Technician
- Design Engineer
- Engineering Technical Analyst
- Lab Technician
- Mechanical Drafter

\$62,500

First-Year
Average Salary

100%

In-field
placement rate

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METAL FABRICATION AND WELDING TECHNOLOGY

The Metals Fabrication and Welding Technology program provides students with a working knowledge of the various tools, equipment and modern techniques used in the metals fabrication, mechanical installation and welding industries. The proper application of various layout, fabrication and assembly techniques for specific designs in sheet metal, plate, structural metals and pipe will be stressed. Students will design, estimate, fabricate and install projects relative to air handling systems, structural and miscellaneous fabricated systems. Proper and safe work habits must be developed due to the nature of the equipment necessary to be successful in the industry.

The understanding and mastery of layout techniques is an essential component for success in the Metals Fabrication and Welding fields. Therefore, disciplines in the basic, parallel line, radial line and triangulation methods of layout are covered. Also, instruction in blueprint reading relative to the manufacturing and construction industries will be required. Included are components in drafting, orthographic projection and symbol interpretation. Gas metal arc, shielded metal arc, gas tungsten arc, oxy-acetylene and flux core arc welding will be studied and practiced to allow students to obtain skills for a total understanding of fabricated projects from design through the final assembly processes.

Graduates of the Metals Fabrication and Welding Technology program are prepared to work in businesses and industries that design, build and install products that have been fabricated from sheet, plate and structural metals.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



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SAMPLE JOB TITLES

- Contractor
- Fabrication Machinery Operator
- Mechanical Systems Installer
- Millwright
- Ventilation Fabrication
- HVAC Installer
- Project Manger
- Welder

\$50,000

First-Year
Average Salary

92%

In-field
placement rate

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PLUMBING TECHNOLOGY

Students in the Plumbing Technology program learn how to design, install, and repair residential and commercial plumbing systems and hydronic heating systems. Some of the skills acquired are joining different types of piping materials, reading blueprints, and installing and repairing boilers, plumbing fixtures, faucets, and water heaters.

Students will:

- Apply safety principles and demonstrate good work habits in the trade.
 - Use the hand and power tools of the trade.
- Identify piping materials and install them using proper connections.
 - Use and apply trade terms and technical data.
 - Read and interpret blueprints, specifications, and codes.
 - Lay out, estimate, calculate, and use mathematical skills.
- Install, maintain, and repair plumbing, heating, and mechanical systems and equipment - and more!

Employment opportunities in the plumbing and pipe-fitting industries include the installation of plumbing and heating systems in new buildings and the installation and maintenance of plumbing, heating, and piping systems for industries, public utilities, or government agencies.

Self-employment is another option. Many graduates become self-employed plumbers after completing their apprenticeships.

SAMPLE JOB TITLES

- Drain Technician
- Fire Sprinkler Service Technician
- Pipe Fitter
- Pipe Welder
- Plumber
- Residential Plumber
- Service Plumber
- Sprinkler Fitter
- Steamfitter

\$45,000

First-Year
Average Salary

100%

In-field
placement rate

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RESIDENTIAL REMODELING TECHNOLOGY

Residential remodeling has become an essential part of the construction industry. Remodelers add living space to existing homes and retrofit homes to modern conveniences and updated building codes. Remodeling can be done not only for cosmetic purposes but also for structural reasons, as well as to increase the energy efficiency of older homes.

Jobs available in the residential remodeling field include but are not limited to carpenters; painters; drywall and ceiling tile installers; roofers; woodworkers; kitchen and bath remodelers; siding, roofing, and aluminum installers; and flooring specialists.

Upon graduation, students of the Residential Remodeling program will have a number of different opportunities available. In addition to working in their field, graduates will also have the chance to continue their education in areas such as project management, technical education, residential designer, civil engineering, and structural engineering degrees. Advanced opportunities as crew leaders, supervisors, assistant supervisors, superintendents and small business owners may also be possible for graduates of the program.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Cabinet Installer
- Carpenters
- Construction Laborers
- Painters
- Construction and Maintenance
- Drywall Installers
- Roofers
- Window and Door Technician
- Woodworkers

\$47,500

First-Year
Average Salary

100%

In-field
placement rate

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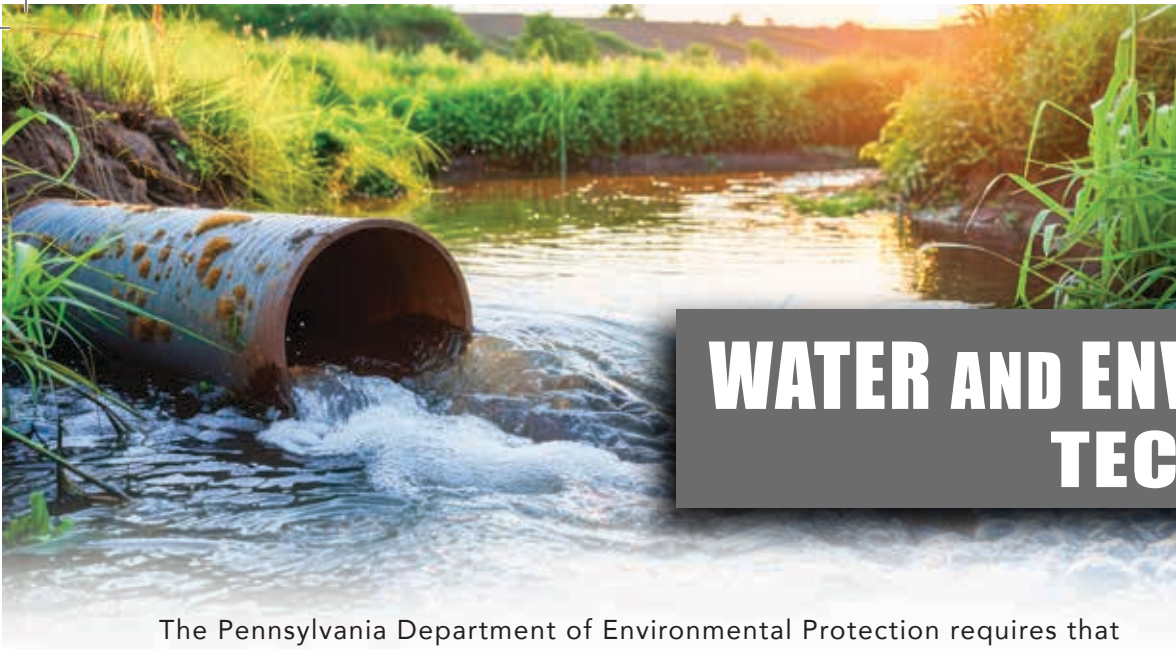
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WATER AND ENVIRONMENTAL TECHNOLOGY

The Pennsylvania Department of Environmental Protection requires that operators of drinking water and wastewater treatment facilities are certified. Certification is obtained through a combination of exams and operating systems. The completion of an approved associate degree program significantly reduces the number of years of operating experience required for certification. Students in the Water and Environmental Technology program gain the knowledge, skills, and abilities necessary for successful completion of Department of Environmental Protection examinations.

Courses in the Water and Environmental Technology program are designed to meet the knowledge, skills, and ability requirements tested on the Pennsylvania Department of Environmental Protection certification exams. This will include courses covering topics such as water and wastewater treatment; water distribution and wastewater conveyance systems; geographical information systems (GIS); equipment maintenance; solids handling; basic electricity; plant administration; and rules and regulations.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



- SAMPLE JOB TITLES**
- Water Treatment Plant Operator
 - Environmental Specialist
 - Lab Supervisor
 - Engineering Designer
 - Plant Manager
 - Wastewater Operator
 - Process Operator

\$57,500

First-Year Average Salary

100%

In-field placement rate

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WELDING TECHNOLOGY

The Welding Technology Program provides the opportunity to develop skills necessary to be a skilled entry level welder. There is an increasing demand for welders in a variety of industries including light and heavy construction, automobile, aircraft, gas and oil, railroad, machinery and manufacturing industries. These skills are developed through theory and hands-on application into various welding specialties including Blueprint Reading and Advanced Computer Aided Design, Oxy-Fuel Welding and Related Processes, Basic Shielded Metal Arc Welding, Basic Gas Metal Arc Welding, and Basic Gas Tungsten Arc Welding. Students learn to use hand-welding or flame-cutting equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

Students find employment in industries related to construction, machinery, manufacturing oil and gas, and transportation. Graduates with entry level certifications will find challenging jobs with opportunity for rapid advancement.

OUR GRADUATES WORK WITH THE INDUSTRY'S BEST



SAMPLE JOB TITLES

- Aluminum Welder
- Fabrication Welder
- Fabricator, Fitter/Welder
- Maintenance Welder
- MIG Welder
- Sub Arc Operator
- Welder
- Welder-Fitter
- Welder/Fabricator

\$52,500

First-Year
Average Salary

96.2%

In-field
placement rate

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