



ENGINEERING & INDUSTRIAL TECHNOLOGY PATHWAY



Do you like to solve problems in a logical way? Are you curious about the way things work? Do you like working with technology?

If so, this pathway may be for you!

Cultivating students' awareness, understanding and application in career areas that include:

ARCHITECTURE
CONSTRUCTION
ENGINEERING
MANUFACTURING TRANSPORTATION
DISTRIBUTION & LOGISTICS

Sample Employers from this Pathway:

Advanced Concrete Systems Inc, Apex Homes of PA LLC, Heister House- Millworks Inc., Larson Design Group, LIVIC Civil, Mid-Penn Engineering Corp., PennDOT, Playworld Systems Inc., PPL Electric Utilities, Ritz-Craft Homes, Thermal Product Solutions (TPS), Zartman Construction Inc., etc.

Central Pennsylvania's Engineering & Industrial Technology Occupations

Prepared by **Advance Central PA**
Source: Center for Workforce Information and Analysis (www.workstats.dli.pa.gov)

Carpenters & Electricians

High School Diploma+

**\$31,100 - \$42,210 -
\$34,650 \$50,630**

Entry Level Wages Average Wages

Welders, Cutters, Solderers & Brazers

Moderate-Term On-the-Job Training

\$31,520 \$40,110

Entry Level Wages Average Wages

Supervisors - Mechanics, Installers & Repairers

Related Work Experience

\$42,680 \$63,640

Entry Level Wages Average Wages

Automotive Service Technicians & Mechanics

Post-secondary Training

\$28,090 \$39,050

Entry Level Wages Average Wages

Civil Engineers

Bachelor's Degree

\$56,150 \$82,340

Entry Level Wages Average Wages

2022

**CAREER READY
Central PA**

CAREER PLANNING

KNOW YOURSELF

Identify your values, strengths, and skills and how they relate to your career goals.

TRY OUT CAREERS

Interview a professional, participate in a job shadow or internship, and network.

WORK YOUR PLAN

Apply to the job, post-secondary training or education option that aligns with your career interests.



RESEARCH CAREERS

Know the required education or training; the job outlook; and the potential earning and advancement opportunities.

RESEARCH REQUIREMENTS

Look at all the options (on-the-job training, apprenticeship, or programs and costs) aligned with your career interests.

What courses are offered in the Engineering & Industrial Technology Pathway? Choices vary at each school but may include the following:

Advanced Math and Science
Computer Assisted Drafting
Introduction to Coding

Introduction to Engineering
Mechanical Drafting

SUN Area Technical Institute offers state of the art programs:

Advanced Precision Machining
Advanced Wood Products Mfg
Auto Technology
Carpentry
Collision Repair Technology
Computer & Networking Technology

Diesel & Truck Technology
Electrical Systems Technology
HVAC & Plumbing
Masonry
Mechatronics
Welding Technology

In addition to courses, students may have opportunities to experience careers in the Engineering & Industrial Technology fields through job shadows, internships and other real world experiences.



Additional Central PA Engineering & Industrial Technology Occupations

Occupation	Education Level	Entry Annual Wage	Average Annual Wage	2026 Jobs (Projected)
Electrical & Electronic Engineering Technicians	AD	\$38,010	\$52,360	190
Architects	BD+	\$60,070	\$84,450	90
Surveyors	BD+	\$48,910	\$63,810	90
Health & Safety Engineers	BD	\$55,890	\$89,880	30
Supervisors - Construction Trades & Extraction Workers	WK EXP	\$43,920	\$64,010	1,290
Brickmasons & Blockmasons	LT OJT	\$44,060	\$56,820	310
Operational Engineers	LT OJT	\$33,970	\$46,760	1,320
Plumbers, Pipefitters & Steamfitters	ST OJT	\$34,310	\$52,410	770
Computer-Controlled Machine Tool Operators	MT OJT	\$26,210	\$38,810	450
Inspectors, Testers, Sorters, Samplers & Weighers	MT OJT	\$29,750	\$40,720	880
Production, Planning & Expediting Clerks	MT OJT	\$32,150	\$44,610	540
Shipping, Receiving & Traffic Clerks	ST OJT	\$26,440	\$36,340	1,210
Automotive Body & Related Repairers	LT OJT	\$23,390	\$40,720	410
Bus & Truck Mechanics & Diesel Engine Specialists	LT OJT	\$30,780	\$42,740	760
Maintenance & Repair Workers, General	MT OJT	\$25,550	\$39,770	4,080
Packaging & Filling Machine Operators & Tenders	MT OJT	\$23,790	\$33,910	1,270
Industrial Truck & Tractor Operators	ST OJT	\$31,120	\$39,670	970

Prepared by **Advance Central PA**. Source: Center for Workforce Information and Analysis (www.workstats.dli.pa.gov)

LEGEND: **ST OJT:** Short-Term, On-the-Job Training **MT OJT:** Moderate-Term, On-the-Job Training **LT OJT:** Long-Term, On-the-Job Training
WK EXP: Related Work Experience **PS/PS+:** Post-Secondary Training **AD/AD+:** Associate Degree
BD/BD+: Bachelor's Degree **MD/MD+:** Master's Degree **PHD/PROF:** Professional Degree

Members of Career Ready Central PA, a regional organization whose mission is to "implement a comprehensive career education strategy to create and share resources and opportunities for schools, students, families and businesses that will produce a skilled, sustainable workforce," developed this brochure. Career Ready Central PA members represent area school districts, universities, workforce development agencies, local business/industry, and nonprofit organizations. Learn more at www.pathtocareers.org.