

CAREERS IN... DRAFTING/COMPUTER ENGINEERING TECHNOLOGY



WHAT CAN I DO WITH A DEGREE IN DRAFTING/COMPUTER ENGINEERING TECHNOLOGY?

Drafters prepare drawings and plans used by production and construction workers to build everything from manufactured products to structures. Their drawings provide visual guidelines, showing the technical details of the products and structures and specifying dimensions, materials to be used, and procedures and processes to be followed. Drafters fill in technical details, using drawings, rough sketches, specifications, codes, and calculations previously made by engineers, surveyors, architects, or scientists. Most drafters today use computer-aided drafting (CAD) systems to prepare drawings. Consequently, some drafters are referred to as CAD operators. CAD systems employ computer workstations to create drawing on a video screen.

The University of Akron offers a Drafting and Computer Drafting Associate Degree, as well as a Drafting and Computer Drafting Certificate. For more information on these programs, visit the University of Akron's website at: <http://sc.uakron.edu/?engscitech/index.html>.

AREAS OF SPECIALIZATION

- Aeronautical drafters
- Civil drafters
- Electronic drafters
- Process piping or pipeline drafters
- Architectural drafters
- Electrical drafters
- Mechanical drafters

REQUIRED SKILLS

- Fluency of ideas
- Oral/Written comprehension
- Operations analysis
- Number facility
- Speed of closure
- Mathematical reasoning
- Oral expression
- Deductive reasoning

COMPANIES THAT HIRE

- Durable Goods manufacturing industries (machinery, electrical equipment, fabricated metals)
- Engineering firms
- Transportation
- Communications (Broadcasting/Telecommunications)
- Architectural firms
- Government

PROFESSIONAL ORGANIZATIONS

- American Design and Drafting Association www.adda.org
- *Tau Alpha Pi*: The University of Akron Engineering Technology Student Honorary www.commtech.uakron.edu/?/links/StdOrg.html

JOB AND EARNING OUTLOOK

The Occupational Outlook Handbook states that employment of drafters is expected to grow about as fast as the average for all occupations through 2010. Industrial growth and increasingly complex design problems will increase the demand for drafting services. Opportunities should be best for those who have at least two years of postsecondary training in a drafting program that provides strong technical skills, and who have considerable skills and experience using CAD systems.

The Ohio Career Information Systems says that drafters' earnings vary by specialty, location, and level of responsibility. In 2006, median annual earnings of architectural and civil drafters were \$41,960; mechanical drafters earned \$43,700; and electrical and electronics drafters earned \$46,830.

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ZIPPY MASCOT

uaccm@uakron.edu

133 S. College Street, Akron, Ohio 44325
330.972.7747

Objective:

Seeking a summer 2007 internship in Computer Drafting.

Education:

The University of Akron, Summit College Akron, OH
Department of Engineering and Science Technology Expected, December 2007

Associates in Applied Science, Major: Drafting and Computer Drafting Technology

- GPA: 3.5/4.0
- Dean's List
- Tau Alpha Pi : The University of Akron Engineering Technology honorary member

Computer Skills:

PeopleSoft	MS Word	Excel	PowerPoint	Desktop Publisher
Harvard Graphics	Lotus 1-2-3	NetWare 2.2		

Relevant Experience:

Civil Drafting Co-op

Cuyahoga County Engineers

Summer 2006
Akron, OH

- Assisted in drafting plans and detailed drawing for new sewage disposal system
- Reviewed rough sketches, drawings, specifications, and other engineering data received from civil engineer
- Correlated and interpreted data from several topographical surveys
- Accompanied field survey crew to locate grading markers and collect data required to revise construction drawings

CAD Technician

Troike-Teeling Engineering, Inc.

Summers, 2004 - 05
Boston, MA

- Drafted detail and assembly drawings and designs of electromechanical equipment and related data processing systems
- Created master layout of design components and circuitry and printed circuit boards utilizing computer-assisted CAD equipment
- Plotted electrical test points on layout sheet, and drew schematics to wire test fixture heads to frame
- Consulted with engineers to discuss and interpret design concepts

Experience:

Administrative Assistant

Configuration Services, Inc.

2000 - Present
Cleveland, OH

- Planned regular interdepartmental meetings to synchronize company efforts and troubleshoot organizational concerns
- Increased office efficiency by training office staff on appropriate software applications
- Compiled in-depth contract reports, processed mail, maintained customer records, and answered incoming calls