

# Engineering Design Technology

If you have a knack for drawing and enjoy doing so on a computer, the Engineering Design Technology associate's degree could be for you! You'll learn how to take product ideas and transform them into engineering models and documentation using CAD computer software packages like these.

- AutoCad
- Catia
- Solid Works

Students will learn how to create engineering documentation, conduct reverse engineering, and investigate product improvement. You'll also produce 3D prototypes and discover the capabilities and limitations of equipment such as 3D printers and laser cutters. Study the importance of electrical systems, programming, and manufacturing processes as a design technician. Learn to create packaging, schematics, and process and instrumentation diagrams.

With your degree, you could find employment as part of a design team by manufacturing, engineering, construction, and mechanical design companies.

Learn more about program requirements and related certificates.

## PLUS »



Students in the EDT program work on real world problems from the first semester.



Most students in the EDT program are working in the field part time during their second year in the program and have full time jobs prior to graduation.



Students in the EDT program have the opportunity to work on interdisciplinary projects using design skills where they can learn other aspects of engineering.

NOTE: SC WINS eligible

## CONNECT WITH US

### Program Director

Ken Tredinnick  
Telephone: (864) 646-1529  
Email: [ktredinn@tctc.edu](mailto:ktredinn@tctc.edu)

### Academic Resource Specialist

Brittany Talbert  
Telephone: (864) 646-1517  
Email: [btalbert@tctc.edu](mailto:btalbert@tctc.edu)

### Division Office

(864) 646-1375  
[eit@tctc.edu](mailto:eit@tctc.edu)

[TCTC.edu/APPLY](http://TCTC.edu/APPLY)

# Career Outlooks and Average Salaries



| Job Title                           | What You Do   | Salary   |          |           | # Job Openings |
|-------------------------------------|---|----------|----------|-----------|----------------|
|                                     |   | Entry    | Median   | Skilled   |                |
| Commercial and Industrial Designers | Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.                      | \$50,160 | \$72,799 | \$145,171 | 51             |
| Civil Drafters                      | Prepare drawings and topographical and relief maps used in civil engineering projects, such as highways, bridges, pipelines, flood control projects, and water and sewerage control systems.  | \$34,298 | \$51,339 | \$80,451  | 39             |
| Electronic Drafters                 | Draw wiring diagrams, circuit board assembly diagrams, schematics, and layout drawings used for manufacture, installation, and repair of electronic equipment.  | \$45,232 | \$69,613 | \$115,842 | 20             |
| Electrical Drafters                 | Develop specifications and instructions for installation of voltage transformers, overhead or underground cables, and related electrical equipment used to conduct electrical energy from transmission lines or high-voltage distribution lines to consumers. | \$45,232 | \$69,613 | \$115,842 | 20             |
| Mechanical Drafters                 | Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.  | \$38,820 | \$59,637 | \$109,042 | 40             |
| Architectural Drafters              | Prepare detailed drawings of architectural designs and plans for buildings and structures according to specifications provided by architect.  | \$34,298 | \$51,339 | \$80,451  | 39             |

