

## A.A.S. Engineering Systems Technology: Welding Engineering Technology\*

\*Pending TBR approval

### Program Overview:

Graduates of the Welding Engineering Technology program graduates will learn practical skills and theory in a wide range of welding technologies. Outcomes will include the ability to use various welding machines and robots for materials joining. Students will learn weld inspection methods, fundamentals of weld design, and welding code requirements. With experience, the Engineering Technology foundation in the program will provide students career advancement potential into technical or management positions.

### How Much Can I Earn?

National Annual Starting Mean Wage: \$31,000 – \$81,660 (Depending on job title)

<http://www.bls.gov/ooh/production/welders-cutters-solderers-and-brazers.htm>

<http://www.bls.gov/ooh/architecture-and-engineering/materials-engineers.htm>

<http://www.bls.gov/ooh/production/metal-and-plastic-machine-workers.htm>

### What Will I Do On The Job?

- Skilled in using manual and / or robotic welding equipment and techniques, applying various processes.
- Lays out, cuts, and assembles according to specifications.
- Welds components using electric, gas, arc and other welding equipment.
- Designs and conducts experiments / tests and then evaluates the data. Assists engineering personnel with the testing and evaluation of various materials.
- Makes recommendations regarding the adoption of new developments and applications of welding / materials joining procedures.
- Inspects welds to make sure they meet standards and codes (AWS, ASME, etc.), and customer requirements.
- Develops welding techniques and procedures using knowledge of production specifications.
- Conducts research investigations to create and evaluate new fabrication processes and improve current welding equipment and methods
- Establishes welding procedures for future production.

([www.weld-ed.com](http://www.weld-ed.com))

### Possible Job Titles:

Welder, Welding Technician, Welding Engineer.

### Who Will Hire Me?

Chattanooga State graduates could work for such organizations as: TVA, Volkswagen, Miller Industries, Komatsu, VC Sumner, or Chattanooga Tank and Boiler just to name a few.

### Need More Information?

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