

**Science,  
Technology,  
Engineering  
& Math  
(STEM)  
Cluster**



*Planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.*

**Data Sources**  
Bureau of Labor  
Statistics  
CareerInfoNet  
CareerClusters  
The College  
Board  
Tracer

# Electrical Engineers

*Turn on a light. Turn on a computer. Turn on a TV. Do you wonder why these work? Do you ever take apart a new gadget when you get it or look at something and think, "Hey, I can make that do more?"*

If you're intrigued by the machines around you and the power that makes them run, a career as an **electrical engineer** may be for you.

**Electrical engineers develop and oversee electrical systems and equipment. They work with everything from power grids to computers and telephones to cars.**

## **Are You Ready To...?**

- See your ideas become reality
- Work as part of a team
- Present and defend your ideas to others
- Keep learning new skills and technology
- Work as a consultant

## **It Helps To Be...**

A creative, logical, practical and flexible team player.

## **A Day In The Life...**

- Analyze engineering design problems and engineering test data
- Analyze project proposal to determine feasibility, cost or time
- Analyze scientific research data or investigative findings
- Analyze technical data, designs or preliminary specifications
- Calculate engineering specifications
- Conduct performance testing
- Conduct training for personnel

## **Salary and Opportunity in the Austin-area**

**Median Hourly Wage: \$52.22**

*That comes out to more than  
\$108,607 a year.*

**In 2016, we had  
2,337 Electrical Engineers.  
By 2026, we'll need 2,654.**

*Could you be one of the 317?*

**Prepared  
by**



**WORKFORCE  
SOLUTIONS**  
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*Connecting People to Jobs*

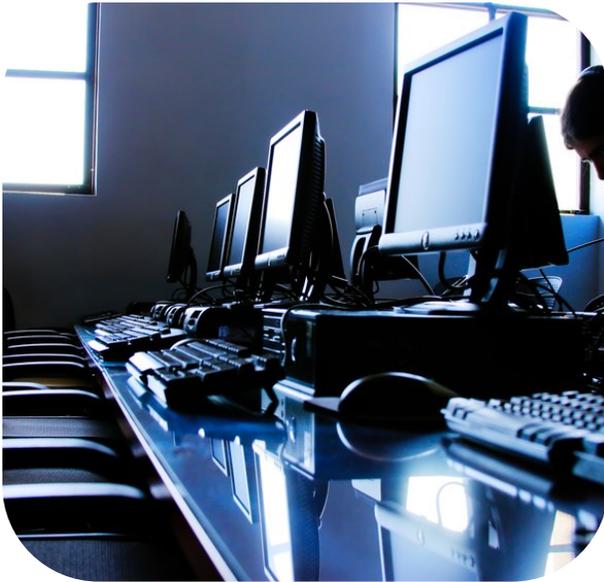
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## After High School...

In addition to a high school diploma, many employers look for electrical engineers with a **bachelor's degree**.



## Top 5 Industries for Electrical Engineers

1. Architectural, Engineering and Related Services
2. Semiconductor and Other Electronic Component Manufacturing
3. Aerospace Product and Parts Manufacturing
4. Electric Power Generation, Transmission and Distribution
5. Communications Equipment Manufacturing

For more Career Profiles, visit our website:

<http://www.wfscapitalarea.com/YouthServices/CareerPlanning.aspx>.

## Related College Majors

- Applied Physics
- Computer Engineering
- Computer Science
- Electrical Engineering
- Electrical Engineering Technology
- Robotics Technology

## Related Industry Certifications

- Arc Flash Certification
- Certified Associate LabVIEW Developer
- Certified Building Commissioning Professional
- Certified Business Energy Professional
- Certified Energy Manager

## Related Careers

- Aerospace Engineers
- Computer Hardware Engineers
- Computer Systems Analysts
- Computer and Information Systems Managers
- Engineering Technicians
- Mechanical Engineers

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