

# Do You Have What It Takes to Be an Electrical Engineer?

LEARN THE EDUCATIONAL REQUIREMENTS & INHERENT SKILLS OF SUCCESSFUL ENGINEERS

According to the National Science Board, people with skills in science and engineering (S&E) are integral to a nation's innovative capacity.<sup>1</sup> Will you be one of the 6 million people employed in S&E occupations, contributing new innovations to the field?<sup>1</sup>

*Electrical engineers made up about 25% of the total number of scientists and engineers employed in the U.S. in 2014.<sup>2</sup>*

These engineers design and manufacture electrical equipment, and work in a variety of industries including construction, chemical, pharmaceutical and utilities. If you're thinking about pursuing a career in electrical engineering, one of the most dynamic fields in S&E, you'll need to possess the right skills and traits in order to be successful.



## Personality Traits & Skills

### ANALYTICS & REASONING

Able to easily find qualitative & quantitative patterns in information

### CREATIVITY & VISUALIZATION

Resourceful, innovative and intuitive when processing information

### STEM SKILLS

Excels in science, technology, engineering & mathematics studies

### HOLISTIC THOUGHT

Able to contextualize and view systems through larger relationships

### LOGICAL THINKING

Practices problem-solving using keen evaluation of facts and figures

### COMMUNICATION

Works well with others to communicate issues and solve challenges

## Education & Experience

**82.1%**

of people employed in S&E have a bachelor's degree or higher level degree in S&E<sup>1</sup>

**81.5%**

of engineers have a bachelor's degree or higher level degree in their specific field<sup>1</sup>

**TIP:** Start preparations in high school by setting a strong foundation in math, which is at the base of all engineering work.

**TIP:** Engineers often work together on projects, so build communication skills through extracurricular activities that encourage teamwork.

**TIP:** Consider obtaining a Professional Engineer (PE) license to improve your career prospects after finishing your degree.

Although a career in electrical engineering demands a variety of skills, it's important that your work both interests and excites you. This path will undoubtedly bring great intellectual challenges, but if you love what you do, you'll have the potential to make great contributions in the field of S&E.

1. Science and Engineering Indicators 2016, National Science Board

2. The U.S. Science and Engineering Workforce, Congressional Research Service

CONTACT US FOR MORE INFORMATION ABOUT THE S&E INDUSTRY AND OUR TEAM OF ELECTRICAL ENGINEERS:

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