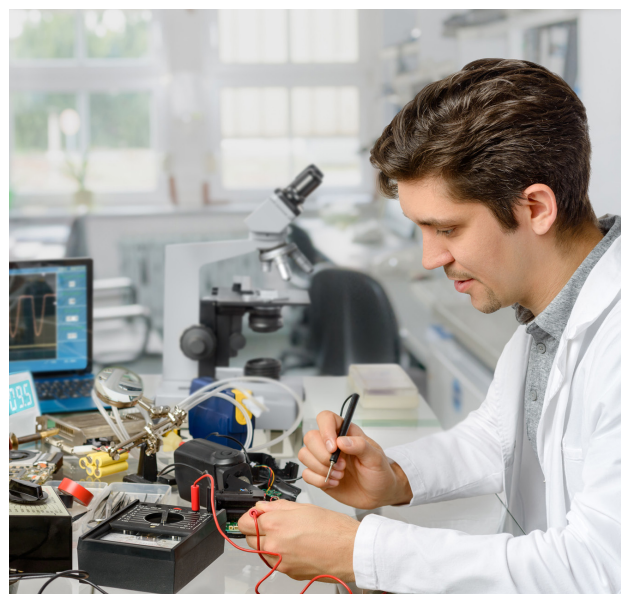


ELECTRICAL ENGINEER

Electrical Engineers use technology to install, repair, service, and create electrical operations.

WHAT RESPONSIBILITIES WILL I HAVE?

- Create electricity generating stations using semiconductors on a circuit board while developing a new electronic device
- Oversee installation, maintenance and repair of new and existing electrical systems
- Design blueprints and diagrams for electrical components
- Participate in technical integration for complete system to ensure system meets product specification
- Work with Supply Management, Sales, Marketing, Manufacturing, and Quality Assurance to optimize designs for cost, quality, and manufacturability
- Use computers and other technologies such as global positioning to create and test electrical equipment
- Tear apart and reassemble equipment
- Read dials and meters to determine amperage, voltage, electrical output and input at specific operating temperature to analyze parts performance
- Develop electrical warning systems
- Ensure compliance with local and national electrical codes
- Maintain an inventory of the instrument/electrical/electronic parts
- Assist in developing, trainings and reviewing electrical programs and procedures for company



WHAT EDUCATION & TRAINING IS REQUIRED?

A Bachelor's or advanced degree in electrical, industrial, mechanical or agricultural engineering required

THE FOLLOWING HIGH SCHOOL COURSES ARE RECOMMENDED...

Agricultural education, a focus on sciences, mathematics

TYPICAL EMPLOYERS

Farm equipment manufacturers, grain milling operations, research firms, meat processing companies, as well as some state and government agencies

FUTURE JOB MARKET/OUTLOOK



SUGGESTED PROFESSIONAL ORGANIZATIONS & ASSOCIATIONS

- Institute of Electrical and Electronics Engineers
- National Society of Professional Engineers
- National Electrical Contractors Association

AVERAGE ANNUAL FULL-TIME SALARY

\$48,000