

# ELECTRICAL ENGINEER

## DESCRIPTION

If you like the idea of creating electrical systems which could help millions of people on a day to day basis, like the systems used in phones or computers, this career might be for you! Electrical engineers are responsible for implementing electrical components into any number of devices that use electricity. You will help to design and manufacture electrical products of all shapes and sizes, making it a career constantly on the cutting edge.

## SKILLS

- Critical thinking and Technological knowledge
- Ability to work under pressure
- Exceptional understanding of science and math
- Ability to analyze technical reports (written and drawn)
- Work with numbers to perform calculations

## DUTIES

- Preparing engineering specifications and drawings for different electrical projects
- Responsible for ensuring that the drawings and specifications meet established project criteria
- Establishing budgets and estimating the time required for the development and creation of new technologies
- Drafting contracts and reviewing construction proposals
- Adhering to national and provincial safety regulations and procedures involved in the design, production, and distribution of new technologies and appliances

## EDUCATION

- **A university degree in electrical engineering or equivalent is required**
- Completion of high school is required

## RELATED PATHWAY OPTIONS

Electrical Designer  
Software Engineer  
Engineering Product Management  
Hardware Engineer

**SALARY RANGE \$70,000 to \$150,000**

VISIT [WWW.MYOCCA.CA](http://WWW.MYOCCA.CA) FOR MORE CAREERS IN CONSTRUCTION

## WHERE TO TRAIN

N/A

## OTHER OPTIONS

CARLTON UNIVERSITY ELECTRICAL ENGINEERING

MCMASTER UNIVERSITY- LECTRIAL ENGINEERING

QUEEN'S UNIVERSITY ELECTRICAL ENGINEERING

RYERSON UNIVERSITY ELECTRICAL ENGINEERING

UNIVERSITY OF WINDSOR ELECTRICAL ENGINEERING

WESTERN UNIVERSITY ELECTRICAL ENGINEERING

UNIVERSITY OF WATERLOO-ELECTRICAL

ENGINEERING UNIVERSITY OF OTTAWA ELECTRICAL

ENGINEERING UNIVERSITY OF ONTARIO INSTITUTE OF

TECHNOLOGY-ELECTRICAL ENGINEERING

## GETTING STARTED

### THE OCCA CAN HELP YOU EXPLORE THESE THREE PATHWAYS:

1

You can begin by applying for a job directly in the Construction Industry. Once you begin working with a Construction Company or Contractor you will quickly gain the necessary skills needed to advance yourself through in-house, work-as-you-learn training.

2

You can get started through an apprenticeship program by combining on the job training with technical in-class training, gaining experience and increased responsibility. You can work in the industry, get paid, and work towards earning credits .

3

You can enroll in a University, Community College or a Private Technical School to study and prepare yourself for a Career in Construction. All of this information may be found through our website.

