

MECHANICAL ENGINEER

DESCRIPTION

Mechanical engineering plays a critical role in manufactured technologies, from cars to airplanes to refrigerators. It enables you to do many daily activities with ease. Mechanical engineers design power-producing machines for aesthetics, functionality, and durability.

SKILLS

- Effectively manage a team
- Works well under pressure
- Manage materials, equipment and tools
- Exceptional understanding of science and math
- Ability to write and analyze technical reports (written and drawn)
- Thrive in team dynamics, following written and oral directions
- Work with numbers to perform calculations and resolve problems

DUTIES

- Analyze problems to see how mechanical and thermal devices might help solve the problem
- Design or redesign mechanical and thermal devices using analysis and computer-aided design
- Oversee the manufacturing process for the device
- Develop and test prototypes of devices they design
- Analyze the test results and change the design as needed

EDUCATION

- **A high school diploma is required**
- A university degree in mechanical engineering is required

RELATED PATHWAY OPTIONS

Electrical Engineer
Electrical Designer
Software Engineer
Engineering Product Management
Hardware Engineer

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

VISIT WWW.MYOCCA.CA FOR MORE CAREERS IN CONSTRUCTION

WHERE TO TRAIN

N/A

OTHER OPTIONS

UNIVERSITY OF WINDSOR MECHANICAL ENGINEERING

WESTERN UNIVERSITY MECHANICAL ENGINEERING

UNIVERSITY OF WATERLOO MECHANICAL ENGINEERING

UNIVERSITY OF TORONTO MECHANICAL ENGINEERING

UNIVERSITY OF OTTAWA MECHANICAL ENGINEERING

MCMASTER UNIVERSITY MECHANICAL ENGINEERING

UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY

UNIVERSITY OF GUELPH MECHANICAL ENGINEERING

LAURENTIAN UNIVERSITY MECHANICAL ENGINEERING

RYERSON UNIVERSITY MECHANICAL ENGINEERING

LAKEHEAD UNIVERSITY MECHANICAL 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.

