

MECHANICAL ENGINEER

Mechanical engineers are involved with the generation, distribution, and use of energy. This could be as a part the control and automation of manufacturing systems, the design and development of machines or the solutions to environmental problems.

WHAT RESPONSIBILITIES WILL I HAVE?

- Review and develop mechanical specifications, piping specifications, layouts and trouble shooting plans
- Develop and implement preventative maintenance plans for equipment
- Assist in the development of process documentation and improvement
- Assist with training and implementation of mechanical maintenance programs
- Assist in the oversight of mechanical construction activities
- Develop materials as needed for the checkout and start up of the facility
- Possibly manage one or more specific portions of work for a project
- Assume maintenance engineer responsibilities
- Provide leadership in maintenance work processes and determining opportunities for improved efficiency
- Analyze problems to see how a mechanical device could be used help solve the problem
- Design or redesign mechanical devices, creating blueprints so the device can be built
- Develop and test prototypes of new machinery
- Analyze the test results and change designs as needed
- Oversee the manufacturing process



WHAT EDUCATION & TRAINING IS REQUIRED?

Bachelor's or Master's degree in mechanical engineering

THE FOLLOWING HIGH SCHOOL COURSES ARE RECOMMENDED...

Agricultural education, agriculture mechanics, mathematics, physics

TYPICAL EMPLOYERS

Laboratories, plants or corporate offices

FUTURE JOB MARKET/OUTLOOK



SUGGESTED PROFESSIONAL ORGANIZATIONS & ASSOCIATIONS

- The American Society of Mechanical Engineers
- American Society of Agricultural Engineers
- National Society of Professional Engineers
- Agricultural Engineers Association

AVERAGE ANNUAL FULL-TIME SALARY

\$76,000