

# MECHANICAL ENGINEERING

# TIAME



# Mechanical Engineering also opens social doors

- Mechanical engineers add value to the society by providing highly mechanized machinery which makes one of the most complex works easy to finish. The machinery not only save time and money but also provides perfection. Therefore Mechanical Engineers are a boon to the society.



## What makes a good mechanical engineer?

- A good mechanical engineer is an innovator at heart, and truly enjoys complex problem solving. They have excellent communication skills (both oral and written) and enjoy working with others as a team player.
- They are excited to be on the edge of technology, learning how to make things work more efficiently. They feel a sense of accomplishment when turning their ideas into reality and solving problems that better society.
- Mechanical engineers are naturally curious, innovative, creative, and practical, and have a desire to help people and the world around them.

# Mechanical engineers typically do the following

- Analyze problems to see how a mechanical device might help solve the problem
- Design or redesign mechanical devices, creating blueprints so the device can be built
- Develop a prototype of the device and test the prototype
- Analyze the test results and change the design as needed
- Oversee the manufacturing process

## **Mechanical engineers use many types of tools, engines, and machines. Examples include the following:**

- Power-producing machines such as electric generators, internal combustion engines, and steam and gas turbines
- Power-using machines, such as refrigeration and air-conditioning
- Industrial production equipment, including robots used in manufacturing
- Other machines inside buildings, such as elevators and escalators
- Machine tools and tools for other engineers
- Material-handling systems, such as conveyor systems and automated transfer stations