## MASTER OF SCIENCE IN MECHANICAL ENGINEERING, PLAN A

The Master of Science in Mechanical Engineering, Plan A is ideal for students who are interested in advancing their career in industry or research. The program combines valuable classroom instruction with research experiences. Students conduct research under the supervision of a faculty advisor, often the Principal Investigator (P.I.), for a government or industry sponsored project. The student's research, in conjunction with thesis credits and coursework, culminates in an article for submission to a peer-reviewed journal and a final thesis.

Students interested in graduate work should refer to the Graduate and Professional Bulletin.

## **Learning Objectives**

- 1. Bring together faculty members and graduate students in a diverse community of scholars having a common interest in advanced professional study and creative work.
- 2. Extend the boundaries of the mechanical engineering profession by developing advanced technologies to provide creative solutions to global problems such as energy, environment and human health.
- Consideration of a challenging problem utilizing analytical, experimental, and/or design techniques 1) to determine and explain the behavior of a simple system or 2) to bring into logical order the techniques of a field which has experienced random growth.
- <u>Develop new analytical knowledge, experimental knowledge, design</u> knowledge, or a combination thereof.