

ABOUT GRADUATE STUDIES IN MECHANICAL ENGINEERING



Mechanical engineers span many of the interdisciplinary technical, social, environmental and economic problems that face the world today. The mechanical engineering domain encompasses the wide realm of motion, all forms of energy conversion and transmission; the flow of fluids and heat; the development, design and operation of machinery and equipment; material structure and properties; and transportation processes. Thus mechanical engineers are involved in almost every aspect of our technology.

WHY PURSUE GRADUATE STUDIES IN MECHANICAL ENGINEERING?

Mechanical engineering is a broad field with a wide and flexible range of career options. A master's degree helps to focus and enrich your area of expertise, as you may elect to specialize in automotive, thermal systems, nuclear or solar energy, aerospace, polymers, CAD/CAM, hydraulics, or many other areas of concentration. NJIT's program offers specializations in such cutting edge areas as biomedical engineering, fluid dynamics, robotics and particle technology.

WHY PURSUE AN MS IN MECHANICAL ENGINEERING AT NJIT?

The Mechanical Engineering department has been an integral part of the development of NJIT as a public research university. Graduate students have the opportunity to work with faculty on research in state-of-the-art multidisciplinary research centers in such emerging areas as engineered particulates, polymer engineering, microelectronics and nanotechnology. The department has well-established relationships with business and government, and graduate students had opportunities for research internships and fellowships at agencies like NASA and Sandia National Laboratories, as well as with corporate partners.

In addition, the state of New Jersey is ranked 4th in the nation in R&D spending, and the state is home to many of the nation's leading technology, pharmaceutical, chemical, biotechnology and telecommunications firms.

WHO SHOULD ENROLL IN THE MS IN MECHANICAL ENGINEERING?

The program is open to students with undergraduate degrees in mechanical engineering or related disciplines, although for some disciplines a bridge program may be necessary to meet the prerequisites.

IS PART-TIME STUDY AVAILABLE?

As with all graduate programs at NJIT, the MS in Mechanical Engineering can be pursued on a full- or part-time basis. Most courses are scheduled in evenings, weekends, or late afternoons to accommodate working professionals.

FOR MORE INFORMATION:

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