

機械工程學系畢業生未來發展圖

CAREERS AND FURTHER STUDIES 就業與進修管道

Professional abilities 可習之專業能力

Solid mechanics as strength of material, mechanical vibration, mechanical structure, etc.
固體力學工程，材料力學、機械振動、機械結構等。

Thermal engineering as motivity factory, engine, air conditioner, etc.
熱學工程，如原動力廠、引擎、冷凍空調等。

Fluid mechanics as fluid mechanism, vacuum technology, aeronautical engineering, etc.
流體力學工程，如流體機械、真空技術、航空工程等。

Mechanical design as computer-assisted design, mechanism design, etc.
機械設計，如電腦輔助設計、機構與機械設計等。

Manufacturing as cutting, casting, plastic manufacture, etc.
機械製造，如切削、鑄造，塑膠加工等。

System control engineering as robot electromechanical systems, etc.
控制工程，如自動化工程、機器人機電系統等。

Nanometer technology and micro-electromechanical systems (MEMS), such as Microsensors, nano-actuators, etc.
奈米技術與微機電系統，如微感應器、微驅動器等。

Further studies 主要進修領域

Graduate Institute of Mechanical Engineering
機械工程研究所

Graduate Institute of Applied Mechanics
應用力學研究所

Graduate Institute of Aerospace Engineering
航空太空研究所

Graduate Institute of Materials Science and Engineering
材料科學及工程研究所

Graduate Institute of Engineering Science and Ocean Engineering
工程科學及海洋工程研究所

Graduate Institute of Electrical Engineering
電機工程研究所

Graduate Institute of Photonics and Optoelectronics
光電工程研究所

Graduate Institute of Environmental Engineering
環境工程研究所

Graduate Institute of Industrial Engineering
工業工程研究所。

Career options 就業管道

Research and design engineer in emerging technology industry and precision and new high technology.
高科技產業，精密機械產業、機電產業與新興科技產業。

Government institutions, such as, Ministry of Economic Affairs, Environmental Protection Bureau, Ministry of Transports and Communications, and various local governments.
政府機構，如經濟部、環保署、交通部與地方各級政府。

Teaching in the Department of Mechanical Engineering related departments.
教育機構，如大學校院之機械工程相關科系。

Professional research institutions, such as Industrial Technology Research Institute, Chung - Shan Institute of Science and Technology, Academia Swinica, Committee for Aviation and space Industry Development, consulting firms etc.

專業之研發單位，如工研院、中科院、航太工業發展小組、顧問公司等。