

# Department of Nuclear and Quantum Engineering

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## **Introduction**

Nuclear and Quantum Engineering is an academic field that encompasses nuclear science and technology, and quantum technology. Nuclear science and technology is primarily concerned with the peaceful use of energy generated by nuclear fission and fusion reactions whose scope includes electric power generation, desalination, district heating, hydrogen production, and propulsion of spacecrafts and vessels. The studies of quantum technology are related to radiation science and technology and quantum phenomena of microscopic objects, and the scope of the studies includes medical imaging, quantum information and quantum computer, quantum optics, and nanotechnology.

The Department of Nuclear and Quantum Engineering has developed the new academic program that balances the existing field of nuclear engineering and the new field of quantum engineering. We aim to develop, train, and nurture those who can lead in science and technology during this new century.