

MSc in

NUCLEAR ENGINEERING

About the program

The program is aimed to provide students with deep knowledge and specialization in nuclear engineering and enables them to relate nuclear engineering theory to practice. It is intended to equip graduates with design, problem solving and research skills in nuclear engineering, which will prepare them for careers as nuclear engineering professionals. The program is only available to nationals of the UAE and Saudi Arabia.

The program gives the opportunity to contribute to the process of discovery and knowledge creation through the conduct of original research and present a thesis. Research may be undertaken in several topics corresponding to the areas of focus identified by the University.

Graduates of the program will

- Identify, formulate, and solve advanced Nuclear Engineering problems through the application of advanced knowledge of mathematics and engineering science.
- Acquire knowledge of contemporary issues and demonstrate an advanced level of understanding in the field of Nuclear Engineering.
- Design and conduct experiments, as well as analyze, interpret data and make decisions.
- Conduct research in a chosen area of specialization and document and defend the research results.
- Function on teams in design, analysis and or/safety and communicate effectively, both orally and in writing.
- Understand legal, professional, regulatory and ethical responsibilities.
- Explore career opportunities with the Federal Authority for Nuclear Regulation (FANR), the Emirates Nuclear Energy Corporation (ENEC), and Nawah Energy Company (Nawah).
- Go through rigorous training and research experience to enable them to pursue their studies at PhD level.

Labs and facilities

Khalifa University's Emirates Nuclear Technology Center (ENTC) provides a hub for students to help address research requirements that support UAE's peaceful Nuclear Power Program.

Secondary Standards Dosimetry Laboratory (SSDL), the UAE's first laboratory for measuring radiation levels, a partnership with FANR.

WHY KHALIFA UNIVERSITY?



GLOBAL RECOGNITION

Khalifa University stands out as the leading institution in the UAE, with 90 of its faculty members acknowledged among the world's top 2% most-cited scientists in Stanford University's prestigious 2023 listing.



CONSISTENTLY HIGH-RANKED

Ranked top in the UAE, 2nd in the Arab world, and ranked 27th in Asia in Sustainability; and among top 250 in the world



GLOBALY-ACCREDITED ACADEMIC PROGRAMS

Khalifa University is fully licensed and all its programs are accredited by the Commission for Academic Accreditation (CAA) of the UAE Ministry of Education.



UNIQUE AND DIVERSE RESEARCH

Including energy, water and environment, healthcare, aerospace, cybersecurity, Intelligent Systems, advanced materials, and fundamental science..



WORLD'S SAFEST CITY

Abu Dhabi, the largest emirate in the UAE, remains the world's safest city for the 8th consecutive year in 2024. Experience safety and a cosmopolitan lifestyle that enhances your learning experience, reinforcing its status as a safe and secure place to live, work, study, and invest.



EXPERT GUIDANCE

We are committed to empowering students for success, fostering collaboration in a diverse community led by world-class faculty. Experience personalized guidance and a conducive learning environment with an impressive 11:6 student-to-faculty ratio, ensuring your path to success is well-supported and rewarding.



DYNAMIC CAREER OPPORTUNITIES

Attractive graduate employment opportunities across a wide spectrum of industries with the opportunity to present research projects at major international conferences.