

MSc in

MATERIALS SCIENCE & ENGINEERING

About the program

The transdisciplinary program enables students to contribute to the high-tech petro-chemical, construction, metal and aluminum as well as the renewable energy and shipping industries.

The program includes courses as well as thesis, which is an independent investigation of specialized areas within Materials Science and Engineering. Graduates include successful researchers, project managers, innovators, entrepreneurs, and industrial leaders.

Interdisciplinary track

Space Systems and Technology, which focuses on the possibilities for exploration and the applications that contemporary space engineering provides.

Concentration

Metallurgical Engineering that meets the needs of the steel and aluminum industry

Graduates of the program will

Graduates of the program will explore careers in material synthesis and characterization, and materials for sustainable energy, clean water, photovoltaics, optical, catalysis, metallurgy, graphene, carbon nanotubes, composites and polymers.

Find opportunities in the UAE Armed Forces and the defense sector, Emirates Global Aluminum, ADNOC, AMMROC, STRATA, Al Yah Satellite, MBRSC, ADNOC, Mubadala Petroleum, Dolphin Energy. G

Go through rigorous training and research experience to pursue their PhD.

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



GLOBALLY-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.