



PhD in **CHEMISTRY**

About the program

The program equips graduates with knowledge in chemical sciences, fostering creativity and problem-solving, proficiency in implementing innovative approaches and effective dissemination of research.

The program emphasizes adherence to the highest professional and ethical standards, ensuring graduates excel in their respective areas of chemical sciences. Additionally, candidates develop individual academic, professional, and career skills.

Research areas include Analytical Chemistry, Organic Chemistry, Inorganic Chemistry, Biochemistry, Theoretical Chemistry, Medicinal Chemistry, Environmental Chemistry, and Materials Science.

The program's emphasis on cutting-edge research aligns with the growing demand for experts in fields such as environmental chemistry, medicinal chemistry, and materials science. The pharmaceutical industry, in particular, seeks qualified researchers for drug discovery and development. The broad spectrum of skills acquired makes graduates adaptable to emerging fields, such as nanotechnology and green chemistry, where there is a rising demand for innovative solutions.

Graduates of the program will

Specialize in several research areas, providing a foundation for diverse and interdisciplinary careers in industries ranging from pharmaceuticals to environmental conservation.

Be well-positioned for diverse and high-demand career opportunities across academia, industry, and research institutions.

Pursue roles as university professors, leading research scientists, R&D directors in pharmaceutical, biotechnology, and materials science industries.

Labs

High-Performance Liquid Chromatography (HPLC), UV/Vis Spectroscopy, Scanning Electron Microscopy (SEM), NMR spectrometers, UHPLC-PDA, HPLC-UV/vis, GC-FID, GC-MS, ICP-MS, Powder X-ray diffractometer, ATR-FTIR, and various spectrophotometers. Additionally, specialized equipment like a force tensiometer, bomb calorimeter, potentiostats, and fluorescence microscope enhance students' practical skills. The facilities also include an Analytical Instrumentation Research Facility featuring LC-MS-MS, GC-HRMS, FT-IR Spectrophotometer, UV-Vis spectrophotometer, and Dynamic Light Scattering Spectrophotometer.

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.