



PhD in BIOMEDICAL ENGINEERING

About the program

This program (Option in Biomedical Engineering) is offered in a synergistic environment, with other engineering and medical/health science programs. Evidence of this synergy is the University's reputation for interdisciplinary teaching and research and its collaborations with leading academic institutions and industries from around the world.

The program covers areas including the development of advanced Micro-/Nano-technologies and biomaterials for improved implantable medical devices; the engineering of molecular, cellular, and tissue approaches and constructs; the enhancement and application of medical instrumentation and imaging technologies; the advanced biomechanics and rehabilitation bio-robotics along with smart IoT and wearable sensors for human behavioural modelling.

Creates capabilities in Genomics, Bioinformatics, Bioelectronics, Machine Learning, Regenerative Medicine, Biomedical Signal, Biomaterials.

Graduates of the program will

Remain pivotal to developing advanced molecular therapeutics and medical devices, while the highly interdisciplinary field remains coupled to the engineering fundamentals.

Secure employment in both biomedical and biotechnology industries as well as academia and various government and private sector organizations, including Technology Innovation Institute (TII), Abu Dhabi Health Services Company (SEHA), and G42.

Labs

Molecular and Computational Bioengineering as well as Biotechnology.



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.