

MSc in APPLIED MATHEMATICS & PhD in MATHEMATICS

About the program

The postgraduate programs support the Abu Dhabi Economic Vision 2030 plan by offering excellent education and research in mathematics, producing highly skilled scientists.

The programs immerse students in a rigorous degree, moving them to the frontiers of contemporary mathematical challenges. Our faculty trains leaders in mathematics for academia, private or public sectors, industry, and government. The program also builds on Khalifa University's leading research activity in science, engineering, and medicine.

Research areas include data science, operation research, mathematical finance, biomathematics, mathematical physics, nonlinear dynamics, statistics, analysis, and fundamental mathematics.

Graduates of the program will

Embark on successful careers across diverse sectors by equipping them with advanced quantitative, analytical, and problem-solving skills:

Intelligent Systems: Develop and apply mathematical and statistical techniques in artificial intelligence and machine learning to create innovative solutions.

Finance and Actuarial Sciences: Utilize advanced quantitative methods for financial modeling, risk analysis, and actuarial applications to drive decision-making in the financial industry.

Software Development: Design and implement mathematical algorithms and integrate data science methodologies to develop cutting-edge software solutions.

Healthcare Analytics: Analyze complex medical data, develop predictive models, and contribute to advancements in healthcare through quantitative insights.

Government Policy: Use quantitative analysis and mathematical modeling to inform and enhance public policy decision-making processes.

Academia and Education: Engage in teaching and advanced research to foster the next generation of mathematicians, statisticians, and data scientists, contributing to global academic excellence.



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.