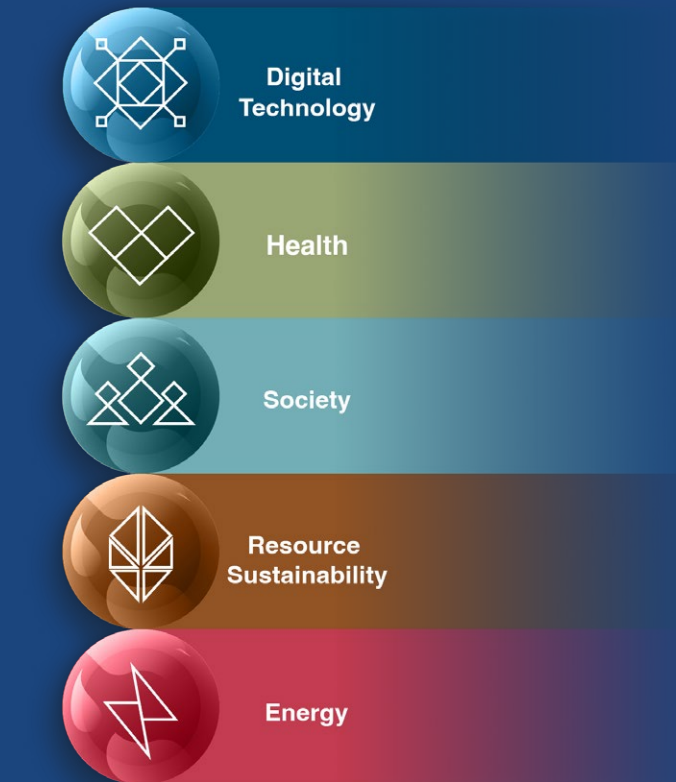


Driving Innovation: QU Outlines “Strategic Research Priorities 2025-2030”

Qatar University (QU) is preparing to launch strategic research priorities for the period 2025–2030, which embody the University’s ambitious vision of being a leading national institution in academic and research excellence with a distinguished global reputation. It reflects the University’s firm commitment to producing and disseminating knowledge that serves society and achieves sustainable development at both national and regional levels.

These priorities come within the framework of Qatar University’s strategy, which aims to strengthen its role as a central hub in the national scientific research system by directing research efforts toward national priorities that align with the goals of Qatar National Vision 2030 as per its four objectives: human, social, economic, and environmental development. These goals are distinguished by establishing an integrated governance framework that ensures the optimal investment of research resources and directs them toward achieving a tangible impact in various vital sectors.

QU has adopted a comprehensive methodology to update and review its research priorities for the period (2021–2025). This methodology was based on the Third National Development Strategy, which focuses on the sectors of health, energy, digital transformation, environment, and education. Extensive studies were also conducted to align priorities with global research trends, as indicated by the 2024 Scopus database. In addition, the strategies of the relevant ministries were integrated into the study, with a focus on five strategic pillars that correspond to national needs and the challenges of sustainable development: health, energy, digital technology, resource sustainability,



and societal development.

The Five Research Priority Pillars for 2025–2030 include:

1. Health

Research efforts in this pillar focus on developing innovative solutions in regenerative medicine and stem cell research, digital health and telemedicine, and artificial intelligence in healthcare, in addition to precision and personalized medicine based on genetic characteristics. This pillar also includes public health systems and epidemiology, with a focus on disease prevention and vaccine development.

Through this pillar, QU seeks to enhance the quality of healthcare and improve patient outcomes while addressing the ethical and security challenges associated with modern technologies.

2. Energy

Energy is considered a strategic pillar for supporting economic diversification and achieving environmental sustainability. Research focuses on enhancing the sustainability of oil and gas production, developing alternatives to renewable and clean energy, improving energy efficiency, and reducing carbon emissions. Efforts also include designing smart energy management systems and creating national policies that promote the transition toward a diversified and sustainable economy, while building a national research base capable of competing globally.

3. Digital Technology

The University is committed to supporting innovation in the fields of artificial intelligence, cybersecurity, high-performance computing, and big data analytics. This pillar aims to accelerate digital transformation in government and industrial sectors, support technological innovation, and develop advanced digital infrastructures that respect ethical and societal values, with a focus on enabling the digital economy and creating productive job opportunities.

4. Resource Sustainability

This pillar reflects the University's commitment to protecting the environment and promoting the circular economy. Research encompasses biodiversity conservation, water and food security, sustainable construction development, and the management of smart infrastructure. It also seeks to develop innovative agricultural technologies, support recycling, and transform waste into valuable resources, thereby ensuring

the sustainability of natural resources and achieving balanced environmental and economic development.

5. Society

This pillar focuses on building a cohesive and secure society that supports human and economic development. Research encompasses promoting digitalization and digital inclusion, advancing education, skills, and capacity building, supporting entrepreneurship and economic diversification, strengthening women's roles in society, and enhancing family cohesion. The pillar also addresses issues of national security and public safety, consolidates national identity and promotes active citizenship, and enhances Qatar's role in regional and global peace and stability.

Qatar University's strategic research priorities are integrated with internally and externally funded projects, as well as graduate programs. Internal grants align funding programs with approved research priorities, using specific and measurable performance indicators. Colleges and research centers play a pivotal role in achieving this integration through strategic planning, which enables them to meet the objectives of research priorities and ensure an effective contribution to national development. The University also emphasizes the importance of strategic partnerships with academic and industrial institutions locally and internationally. It encourages multidisciplinary research that serves more than one research field due to its broad impact and added value to the research ecosystem. Through this integrated approach, the University continues to solidify its position as a beacon of scientific research, anticipating future horizons and contributing to the development of a knowledge-based society, while supporting national ambitions for achieving comprehensive and sustainable development.

