

Qatar Foundation: Research, Development, and Innovation

QF's research, development, and innovation (RDI) efforts are designed to build an

- Nurtures homegrown researchers, innovators, and tech startups.
- Develops innovative solutions to Qatar's challenges.
- Generates breakthroughs that have the potential to benefit the world.
- Supports the building of a sustainable, diversified economy through generating intellectual property and commercialized innovation.

Qatar Foundation Research, Development and Innovation (QF RDI) translates Qatar's national RDI strategy into specific initiatives and actions to be driven forward by QF's RDI entities. It directly manages the operations of:

- **Qatar Science & Technology Park (QSTP):** Qatar's premier hub for applied research and technology innovation, incubation, and entrepreneurship.
 - **50+** resident companies (R&D and technology development companies, and startups).
 - 20 startups created since 2016.
 - 150 students from the MENA region participated in the first Arab Innovation Academy in 2017-18.
 - 60 students from 7 local universities have participated in QSTP-organized Silicon Valley Trips since 2017.
 - 200+ participants have graduated from the QSTP XLR8 (QSTP's accelerator program) since 2015.
 - 12 Qatari SMEs have received QSTP Product Development Fund grants since September 2016.

- **Qatar Biobank:** the largest population-based health initiative ever undertaken in Qatar, which will make vital health research possible through its collection of samples and information on health and lifestyle from members of the Qatari population.
 - **15,000+** participants screened to date.
- **Qatar Genome Programme (QGP):** An ambitious population-based project aiming to position Qatar among the pioneering countries in the implementation of precision medicine.
 - The project is generating large databases combining whole genome sequencing and other omics data with the comprehensive phenotypic data collected at Qatar Biobank.
 - The wealth of such data empowers researchers to make breakthrough discoveries, as well as helping policy-makers plan the future direction of healthcare in Qatar.

QF RDI also oversees the RDI strategies and activities of Hamad Bin Khalifa University's three **national research institutes:**

- **Qatar Biomedical Research Institute (QBRI)** focuses on improving and transforming healthcare through innovation in preventing, diagnosing, and treating diseases affecting Qatar and the region. It has 3 centers of excellence:
 - Cancer Research Center
 - Diabetes Research Center
 - Neurological Disorders Research Center
- **Qatar Computing Research Institute (QCRI)** conducts multidisciplinary computing research relevant to national, regional, and international needs, in fields that include:
 - Arabic language technologies
 - Social computing

- Data analytics
- Cyber security
- **Qatar Environment and Energy Research Institute (QEERI)** plays a leading role in addressing national energy, water and environment challenges, through focused programs across four centers:
 - Energy Center
 - Water Center
 - Environment Center
 - Computational Center

Qatar National Research Fund (QNRF), a member of QF, is a globally-recognized research funding agency, with a portfolio of programs that:

- **Enable original, competitively selected research** focused on Qatar's four key priority areas: **Energy and Environment, ICT and Computing, Health and Biomedicine**, and **Social Sciences, Arts and Humanities**.
- **Support research across all sectors and levels** - from students to experienced researchers.

QNRF programs have:

- Received over **11,000** research proposals and awarded over **2,600** projects.
- Supported the research projects of 3,049 undergraduate, 350 graduate, and 2,378 high school students.
- Created 720 research associate, 1,589 research assistant, 389 lab technician, and 891 postdoctoral research roles.
- Led to 253 invention disclosures, 86 patents being filed, and 14 patents being awarded.
- Funded research that has featured in 8,000 scientific publications.