

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.

QF's RDI efforts have led to **95** registered patents, **118** copyrights, and **6** trademarks.

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, **20** of which are international (R&D and technology development companies, and startups).
 - Over **QAR 4.3 billion** invested in RDI activities by international companies registered at QSTP.
 - **115** investments in regional companies through partnership with **500** Startups.
 - **20** Qatari tech startups incubated.
 - **31** innovative products produced and commercialized.
 - Over **1,000** people have benefited from QSTP's innovation programs.
 - Over **5,000** people have worked at QSTP-based companies



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since 2008.

- QSTP covers an area larger than **125** soccer pitches.

- **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.
 - **25,000+** participants screened to date.
 - **193** research projects enabled, involving 22 institutions in Qatar's healthcare sector.
- **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.
 - Over **17,000** genomes have been sequenced by QGP.

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:





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- 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:

- Funded more than 4,200 research projects.
- Supported the research projects of 9,550 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.