



PhD in Sustainable Energy

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Doctoral program with a focus on topics related to sustainable energy and the impact urbanization, transportation and manufacturing have on energy sustainability.



The HBKU Sustainable Energy PhD program provides students with extensive knowledge in topics related to sustainable energy and the impact urbanization, transportation and manufacturing have on energy sustainability. The program also looks at the implications and drivers of sustainable policymaking on society, the economy and the environment. A key component for both degrees is original, guided research in energy science and technologies that support sustainable development. The multidisciplinary approach to the curricula allows for engagement in cross-disciplinary science and builds fundamental knowledge that evolves with the developments within the energy field, equipping graduates with the tools needed to pursue a wide variety of career paths.

Program Focus

Skills to build a successful career in science, engineering and technology including: ethics, technical writing, research methods, data analytics, and advanced computing methods.

Fundamentals of energy engineering, sciences and technologies for sustainability.

Fossil fuel energy usage and environmental impact.

Engineering and scientific development of renewable “green” energy.

Energy storage, distribution and consumption efficiency.

Social and economic aspects of sustainability and energy.

Curriculum

A 68-credit program, taught in English, typically over 3 years (for students already possessing a master's degree) that includes:

- 4 core courses
- 2 elective courses
- 6 semesters of graduate research seminars
- A 44-credit research thesis under the supervision of an adviser and a PhD dissertation committee

PhD students should additionally pass a qualifying examination in their third semester and successfully defend their thesis proposal in their fourth semester to their committee.

YOU MAY WANT TO CHECK



Research

Research is integral to Hamad Bin Khalifa University's mission to help build human capacity in Qatar, playing a pivotal role in HBKU's academic programs across all its colleges.

- [Qatar Environment and Energy Research Institute \(QEERI\)](#)

- [Qatar Biomedical Research Institute \(QBRI\)](#)
- [Qatar Computing Research Institute \(QCRI\)](#)