



# PhD in Sustainable Environment

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Doctoral program with a focus on topics related to sustainable environment, including the effects of human development, pollution, and population growth on the environment.



The HBKU Sustainable Environment PhD program provides students with extensive knowledge in topics related to sustainable environment issues, including the effect of human development on the environment; the causes, impact and control of pollution; and the demands of a growing global population on natural resources. Students conduct original, guided environmental research that concentrates on issues surrounding the support of sustainable development. The multidisciplinary approach to the curricula builds fundamental knowledge that evolves with the developments within the field, equipping graduates with the tools needed to pursue a wide variety of career paths.

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## Program Focus

Core skills to build a successful career in science, engineering, and technology-related areas, including ethics, technical writing, research methods, data analytics, and advanced computing methods.

Fundamentals of sustainable development and human-environment interactions related to policy, engineering, and technology and the fundamentals of environmental processes.

Water demand, resource management, and treatment processes.

Air emission sources and how these relate to human activity, as well as the impact on human health and the environment of key pollutants. Explore the impact of human activities such as energy generation, water treatment, and manufacturing on land – particularly in terms of solid and hazardous waste generation and disposal.

## Curriculum

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

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- **Core course:**

Sustainability Fundamentals and Tools

- **Core course:**

Research Methods and Ethics

- **Core course:**

Elected Math Core

- **Core course:**

Elected Computation Core

- **elective courses**

- **6 semesters of graduate research seminars**

- **A 44-credit research thesis under the supervision of an adviser and a PhD dissertation committee**

- Students without a master's degree but with exceptional performance in an approved bachelor's degree may be admitted to the PhD program but will need to take an additional 24 credits of coursework.
  - PhD students should additionally pass a candidacy examination after their second semester and successfully defend their thesis proposal after their fourth semester to their committee.
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## 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 \(QBRI\)](#)