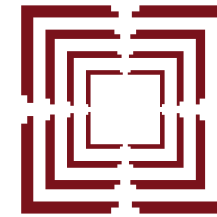




# PhD Programmes in ENGINEERING AND APPLIED SCIENCE



**Ahmedabad  
University**

Ahmedabad University is a private, non-profit institution established in 2009. We provide a liberal education, preparing students to reflect deeply and creatively across fields to become independent thinkers and compassionate leaders. This unique learning process is mediated by projects, fieldwork and a belief that a strong theoretical grounding leads to robust practice. As a student-centric, research university, we are committed to the discovery of ideas that can enhance our understanding of issues facing our world at the intersection of various axes of influence defined by: disciplines (data, materials, biology, and behavior), nature (air, water, forests, and land), sectors of impact (health, transport, energy, and education) and society (individual, community, civilization and constitution).

The School of Engineering and Applied Science aims to support research and innovation conducted by its faculty and student community, as well as enhance the quality of their interaction with industries and professional organizations. At the School, faculty are encouraged to establish research groups, be involved in institution building, innovate, consult and conduct collaborative research. The doctoral programme at the School of Engineering and Applied Science of Ahmedabad University offers an interdisciplinary exposure to research and provides the students an opportunity for building a career in academia or R&D sectors of industry. Faculty members of the School of Engineering and Applied Science are actively involved in research and project-based-teaching and have been awarded research grants from government funding agencies and industry, as well as internal research grants from Ahmedabad University.



## ▼ RESEARCH AREAS

The areas for research at the School of Engineering and Applied Science, Ahmedabad University include but are not limited to:

### APPLIED SCIENCES

**Applied Chemistry**, covering the broad areas of:

- Material Science
- Surface Science and Nanotechnology

**Applied Physics**, covering the broad areas of:

- Complex systems
- Thin Films Solar Cells and Photovoltaic Systems

### ENGINEERING

**Chemical Engineering**, covering the broad areas of:

- Air Pollution Treatment
- Catalysis
- Computational Fluid Dynamics
- Energy Storage and Carbon Capture Materials
- Process Integration
- Water Treatment Processes
- Soft Matter

**Mechanical Engineering**, covering the broad areas of:

- Machine Design
- Mechatronics
- Production and Manufacturing
- Thermo-Fluids Engineering
- Solar Energy
- Applied/Bio/Opto Mechanics
- Micro-Electro Mechanical Systems (MEMS)
- Additive Manufacturing

**Computer Science and Engineering** covering the broad areas of:

- Artificial Intelligence
- Algorithms and Optimization
- Big Data Analytics
- Blockchain Technology
- Computer Vision
- Computer Networks
- Cloud Computing
- Cyber-Physicals Systems
- Embedded Systems and Internet of Things
- Theoretical Computer Science
- Wireless Communication
- Antenna Design & Development
- RF and Microwave Circuits and Systems
- Industry 4.0 Sensors & Automation Systems
- Computer Architecture and High-Performance Systems
  - VLSI Subsystem Design
  - Intelligent Transportation Systems



## ▼ HIGHLIGHTS OF THE SCHOOL OF ENGINEERING AND APPLIED SCIENCE

- More than 30 PhD students working currently and 8 students graduated so far.
- About 15 ongoing/completed externally funded research projects from DST-SERB, DST- UKERI, DST-ASEAN, UGC-DAE, BRNS as well as research projects supported by Industries
- More than 20 publications in peer-reviewed international journals in 2019-2020
- Advanced research facilities that maintain state-of-the-art equipment and instrumentation supporting a full range of materials research activities, characterization and computation
- Communications laboratory, Data Science and Analytics laboratory, Electronics, VLSI and Embedded Systems laboratory
- Talks and presentations from experts around the country are a key part of the vibrant research environment at the School

For further information about research please visit [www.ahduni.edu.in/seas/research](http://www.ahduni.edu.in/seas/research).



## ▼ FACULTY AND RESEARCH

We have more than 25 faculty members at School of Engineering and Applied Science who pursue research at the prominent edge of their fields. Our students cultivate close working relationships with faculty devoted to the establishment of new knowledge. As they train the next generation of researchers and teachers, our faculty take the role of mentor seriously. Overall goals of the faculty are to help students acquire the research skills necessary to develop original research studies that have direct applications. For further information please visit [www.ahduni.edu.in/seas/people/faculty](http://www.ahduni.edu.in/seas/people/faculty).



## ▼ ELIGIBILITY

- ME / MTech / MSc with a minimum of 55% marks or an equivalent grade. The School will conduct a written test and interview; however applicants with a valid GATE score will be exempted from the written test.
- In exceptional cases, a candidate with a Bachelor's degree may be admitted to the programme, albeit with the requirement of completing additional credits as per the overall PhD policy of Ahmedabad University.

## ▼ FINANCIAL SUPPORT

- A 100% tuition waiver will be given to all full time doctoral students
- In addition to a full tuition fee waiver, University Fellowship in the form of a monthly stipend is also provided to deserving candidates.
- Other avenues of financial support include teaching assistantships of the School or fellowships from sponsored research projects



## ▼ ADMISSION PROCESS

- Students are admitted twice every year. The online application process for the monsoon semester starts in February and the online application process for the winter semester starts in September.
- Submit the completed application form online along with the required fees and all supporting documents through the portal [www.auris.ahduni.edu.in/adm-ahduni-doctoral.php](http://www.auris.ahduni.edu.in/adm-ahduni-doctoral.php)
- Eligible and qualifying candidates will be short-listed based on merit, the submitted documents, statement of purpose, and any essay (if required). They will be required to appear for a written test and/or panel interview
- The dates for written test/interview will be notified in advance

## CONTACT

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