principle: networking

HITEC guiding exchange and

HITEC location

HITEC is hosted by the Institute of Energy and Climate Research at Forschungszentrum Jülich. Partners are the universities of Aachen, Bochum, Cologne, Düsseldorf and Wuppertal.

Science and Engineering

Helmholtz Interdisciplinary Doctoral Training for Energy and Climate Research

Based on the expertise of Jülicher Energy and climate Institutes | Universities | International Partners

• Learning together and building networks
• Exchanging knowledge across borders of disciplines
• Becoming a part of a wider community

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The HITEC programme serves as an umbrella programme that builds close ties among all participating institutes, fostering a collaborative environment. The 3-year training programme is based on a modular concept that accompanies the doctoral thesis. Students can select from a variety of HITEC events on specialist topics and methods. Hands-on methods training in laboratory placements, HITEC lecture days or a retreat, which is organized by the PhD fellows, broaden the scientific qualification beyond the narrow scope of the individual research projects. HITEC will also include training courses in transferable skills specially developed for HITEC students. These courses include presentation techniques, scientific writing, communication as well as project and self management.

The HITEC programme aims to train PhD students in the challenging fields of energy and climate research and turn them into well needed experts for academia and industry. HITEC students can expect:

- Instruction in the scientific, methodological and communication skills necessary for scientific work at the highest international level.
- Communication of wellfounded cross-cutting know-how on the scientific, technical and social dimensions of the topics of energy and climate.
- Networking of the PhD students from the different research areas of Forschungszentrum Jülich and the partner universities in order to encourage interdisciplinary thinking and creative solutions.
- Enhancing future career prospects by the targeted provision of transferable skills.

HITEC is committed to scientific excellence and seeks to expand multidisciplinary horizons and international cooperation. Its faculty members are leading scientists in their fields. HITEC students choose their thesis advisors from one of the Jülich institutes or work at one of the five partner universities.

Seeking
- Physicists
- Chemists
- Engineers
- and other scientific disciplines

For application please check: www.fz-juelich.de/hitec

A comprehensive spectrum of topics:
- Materials
- Photovoltaics
- Storage
- Reactor Safety
- Fusion
- Climate Systems
- Energy Systems

A broad spectrum of methods:
- Electron Microscopy
- Nanotechnology
- Coating
- Spectroscopy
- Simulation
- Synchrotron Radiation
- Process Technology

Supervision of the participants will be complemented by internal mentoring to improve interdisciplinarity and by external mentoring to improve their international networking in science and industry. Students will be involved in international projects, will be offered opportunities for research abroad and can create their own visitors programme for foreign senior or junior scientists.

You are spoilt for choice in the area around Jülich:

- the vibrant cultural scene in nearby Cologne, Aachen or Düsseldorf with theatres, opera houses, concert halls, museums and sport arenas; excellent water, road, rail and air communications with a dense network of motorways, modern rail connections to major European cities as well as five airports; excellent recreational facilities with the region’s variety of parks, wooded lakeland areas and health resorts.

The region also enjoys a well-deserved reputation for hospitality and gastronomy.

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