RESEARCH FOCUSED TEACHING

BACHELOR & MASTERS THESSES

FIRST CLASS RESEARCH ENVIRONMENT

NEW LABORATORIES

INTERNATIONAL CONCEPTS OF WATER TECHNOLOGIES

- Bachelor Wahlpflichtfach VL 22644
- Innovative concept of problem based learning
- Lectures & impulse lectures as topic introduction
- International desalination/water reuse project
- Team work with one tutor for every 2 projects
- Workshop presentation and report as ‘exam’

WATER-ENERGY NEXUS

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INTERNATIONAL DEVELOPMENT

- International collaboration and travel opportunities
- Field work in remote locations (Australia, Ghana, Tanzania with many other opportunities)
- Research exchange sabbaticals
- Career opportunities & scholarships

RELEVANCE TO INDUSTRIAL APPLICATIONS

- Multi-cultural background and mobility
- Structured supervision with regular group meetings, seminars and in-depth feedback
- Transdisciplinary team work
- Publication focused work from masters project through to academic independence
- International recognition and extensive network

DYNAMIC RESEARCH TEAM

- English language research team
- Multi-cultural background and mobility
- Structured supervision with regular group meetings, seminars and in-depth feedback
- Transdisciplinary team work
- Publication focused work from masters project through to academic independence
- International recognition and extensive network

OPPORTUNITIES

- Masters/Bachelor/Study Project/HIWI/PhD & postdoc projects adjusted to student interests
- Visit http://mt.ifg.kit.edu/24.php for current opportunities or notice board CS Bldg 10.91

GRADUATE ATTRIBUTES

- Membrane technology example as state-of-the-art water treatment technology
- Confidence in technical English
- Literature search and management (Endnote)
- Industrial design software
- Report Writing and oral Presentation
- Industry relevance/real world example

PROJECTS RELEVANT TO GLOBAL CHALLENGES

- English language research team
- Multi-cultural background and mobility
- Structured supervision with regular group meetings, seminars and in-depth feedback
- Transdisciplinary team work
- Publication focused work from masters project through to academic independence
- International recognition and extensive network

DYNAMIC RESEARCH TEAM

- Process Engineering Laboratory: nanofiltration, electrodialysis, photocatalytic membranes, solar powered systems
- Water Analysis & Radiotracer Laboratories: full characterization of waters before and after treatment (nanoparticles, organic matter, ions, micropollutants)
- Membrane Manufacturing & Characterization Laboratory

STATE-OF-THE-ART FACILITIES

- Masters & Bachelors
- Postdoc/Group Leader

PROJECT BASED LEARNING

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NEW LABORATORIES

INTERNATIONAL TEAM

TRAVEL & CAREER

Contact: Prof Dr Ing Andrea Iris Schäfer
Email: andrea.iris.schaefer@kit.edu
Phone: +49 (0)721 608 26906
Website: http://mt.ifg.kit.edu

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KIT – The Research University in the Helmholtz Association

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