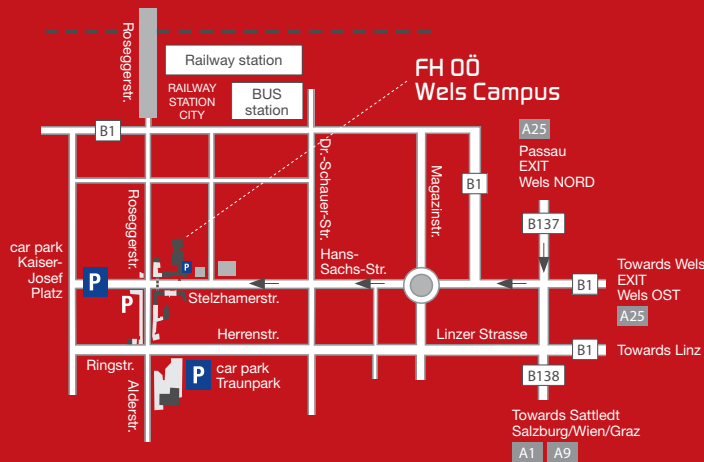


HAGENBERG | LINZ | STEYR | WELS

# SCHOOL OF ENGINEERING AND ENVIRONMENTAL SCIENCES

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School of Engineering and Environmental Sciences

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## ISAE4W - International Summer Academy for Women in Engineering

July 13<sup>th</sup> – 24<sup>th</sup>, 2015  
Wels Campus

University of Applied Sciences Upper Austria  
Stelzhamerstrasse 23, 4600 Wels  
Austria | Europe

[www.fh-ooe.at/isae4w](http://www.fh-ooe.at/isae4w)



UNIVERSITY OF APPLIED SCIENCES UPPER AUSTRIA



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Pictures: FH OÖ

# What is the ISAE4W?

## International Summer Academy in Engineering 4 (for) Women

The government of Upper Austria (LR Mag.<sup>a</sup> Doris Hummer) and the University of Applied Sciences Upper Austria offer an unique opportunity for a selected group of highly-motivated and talented women (high school, college or undergraduate students) to experience top-class and challenging university-level coursework.

The Academy's intensive, two-week programme combines sophisticated theory with hands-on practical experience in engineering and natural sciences. In addition to knowledge transfer in these fields, social, cross-cultural and gender aspects are covered and discussed during lectures and workshops.

Each participant can choose from one of two main topics:

- >> Physics and Technology
- >> Biotechnology and Chemistry

### Why participate?

- >> Improve language and intercultural skills
- >> International contacts
- >> Broaden technical and scientific knowledge
- >> Creativity, fun and experience

### Essential Information

- >> **Date:** July 13<sup>th</sup> - 24<sup>th</sup>, 2015
- >> **Target group:** women from 17 to 26 years
- >> **Language of instruction:** English
- >> **Venue:** University of Applied Sciences Upper Austria  
School of Engineering and Environmental Sciences  
Stelzhamerstraße 23, 4600 Wels, Austria | Europe
- >> **Fees:** € 780,- including tuition fees, room for the entire stay, meals on weekdays (weekends are free for individual activities), numerous excursions
- >> **Application:** Online from now until April 30<sup>th</sup>, 2015  
see [www.fh-ooe.at/isae4w](http://www.fh-ooe.at/isae4w)
- >> **Contact:** Tel.: +43 (0)50804-46603 | E-Mail: [isae4w@fh-ooe.at](mailto:isae4w@fh-ooe.at)

# Selected Topics

## Natural Sciences in Time & Space

- >> Development of Natural Sciences and world view from Ancient Greece to Modern Physics – Lectures and discussions
- >> Observing the universe

## Applied Sciences in Theory and Practice

- >> Research projects with modern devices and methods at the University of Applied Sciences Upper Austria
- >> Destructive testing like tensile tests with metal and plastics samples, hardness testing, impact testing
- >> Non destructive testing like ultrasonic testing, microscope investigations, ...
- >> Renewable energy
- >> OpenPhysics

## Chemistry and Synthetic Biology

- >> Synthetic Biology – Promises and dangers for society
- >> General Molecular Biology – Basic introduction into DNA replication and PCR technology
- >> Chemical Analysis – Fatty acid detection from foods via gas chromatography

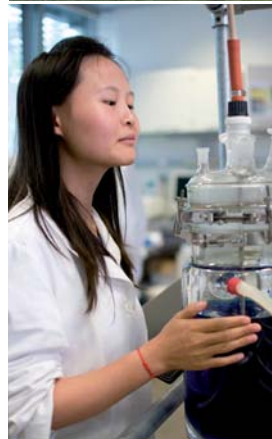
## Interesting Places to Visit

- >> Companies with technical background and research facilities
- >> Museums
- >> Cultural Highlights in Upper Austria

## Specific Topics

- >> Intercultural communication and the role of women in science and research
- >> From the business idea to the successful company establishment

**We are looking forward to meeting you!**



Pictures: Kolpingheim, FH OÖ