



HAGENBERG | LINZ | STEYR | WELS

SCHOOL OF ENGINEERING AND ENVIRONMENTAL SCIENCES

University of Applied Sciences Upper Austria
School of Engineering and Environmental Sciences

Stelzhamerstraße 23
4600 Wels | Austria
Tel.: +43 (0)50804-46603
Fax: +43 (0)50804-943100
isae4w@fh-ooe.at
www.fh-ooe.at
f /fhooe.at



ISAE4W - International Summer Academy for Women in Engineering

July 13th – 24th, 2015
Wels Campus

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

www.fh-ooe.at/isae4w



UNIVERSITY OF APPLIED SCIENCES UPPER AUSTRIA



UNIVERSITY OF APPLIED SCIENCES UPPER AUSTRIA



Pictures: FH OÖ

What is the ISAE4W?

International Summer Academy in Engineering 4 (for) Women

The government of Upper Austria (LR Mag.^a 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 13th - 24th, 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 30th, 2015
see www.fh-ooe.at/isae4w
- >> **Contact:** Tel.: +43 (0)50804-46603 | E-Mail: 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