ISAE4W - International Summer Academy for Women in Engineering

July 13th - 24th, 2015
Wels Campus

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

www.fh-ooe.at/isae4w
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 und 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!