

International Summer Academy in Engineering for Women – ISAE4W

Monday 7th – Friday 18th July 2014

What is the ISAE4W?

The government of Upper Austria (LR Mag^a Doris Hummer) and the Upper Austria University of Applied Sciences offer a unique opportunity for a selective group of highly-motivated and talented women (high school, college or undergraduate students) to experience rigorous and challenging college-level coursework.

The Academy's intensive, two-week programmes combine sophisticated theory with hands-on practical experience in engineering and environmental sciences. Beside knowledge transfer in engineering and environmental sciences, social, cross-cultural and gender aspects are communicated and discussed during lectures, seminars and workshops. A team of highly-qualified academic staff, mainly women from our university as well as from other universities and organizations, will provide a lot of information and communication during the events.

Selected Topics

Space and Time, e.g.

- Understanding and observing space and the earth (telescope, make beautiful pictures of the sun, the planetary system, stars and star systems)
- Space exploration and travel
- Impact events (theory, practical experiments and discussion, e.g. meteorites)
- "Climate" on earth and in the universe
- Modern Physics

Energy & Power – Applied Sciences, e.g.

- Physical principles in theory and experiments
- Renewable energy
- Sustainability
- Biomechanical aspects of rock climbing (environment, including practical experience and indoor climbing)

Chemistry and Molecular Biology, e.g.

- Influence of molecular biology on society
- Generation of green fluorescent bacteria
- Forensic DNA analysis
- Chemical analysis of food



Design, e.g.

- Creative thinking approach
- Materials and Design

Interesting places to visit, e.g.

- Water-/ wind-, / solar power stations
- Companies with technical background and research facilities
- Museums
- Cultural highlights in Upper Austria

Specific topics

- Intercultural communication and women in science, research and careers
- Technical English



Essential Information

Application:

Online from now until 11th of May 2014 at www.fh-ooe.at/isae4w

When and where does the International Summer Academy take place?

Monday 7th of July – Friday 18th of July 2014

@ University of Applied Sciences Upper Austria, School of Engineering and Environmental Sciences in 4600 Wels, Stelzhamerstr. 23

Tuition language: English

Costs: No tuition fees – grants from the government of Upper Austria (LR Mag^a Doris Hummer) for living and accommodation on request.

If you have further questions please contact isae4w@fh-ooe.at