



SCHOOL OF ENGINEERING

ISAE4W - International Summer Academy in Engineering for Women

11th – 26th July 2017
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



What is the ISAE4W?

International Summer Academy in Engineering 4 (for) Women

For the 4th time, the government of Upper Austria and the University of Applied Sciences Upper Austria offer a 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 and a half week programme combines sophisticated theory with hands-on practical experience in engineering, informatics 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 three specializations:

- >> Natural Sciences
- >> Engineering and Technology
- >> Computer Science and Informatics

Why participate?

- >> Broaden technical and scientific knowledge
- >> Earn academic credit (4 ECTS)
- >> Improve language and intercultural skills
- >> International contacts
- >> Creativity, fun and experience

Essential Information

- >> **Date:** 11th - 26th July 2017
- >> **Target group:** women from 18 to 25 years
- >> **Language of instruction:** English
- >> **Venue:** University of Applied Sciences Upper Austria
School of Engineering, Wels, Austria | Europe
- >> **Fees:** € 780,- including tuition fees, room for the entire stay, meals on weekdays (weekends are free for individual activities), numerous field trips
- >> **Application:** online from now until 30th April 2017
see www.fh-ooe.at/isae4w*
- >> **Contact:** isae4w@fh-ooe.at

* Please note that due to limited capacities a maximum of two students per specialization and a total of four students per institution can be accepted. Acceptance decisions will be made exclusively based on the students' qualifications and the fit with the offered specialization. Competitive entry: We reserve the right to decline applicants.

What is it about?

MAIN TOPICS

Choose from one of three specializations:

Natural Sciences

- >> Development of the natural sciences and world-view from ancient Greece to modern day physics
- >> Synthetic biology: promises and dangers for society
- >> Molecular biology: forensic DNA profiling and its computational analysis

Engineering and Technology

- >> Physics of ferromagnetic materials and their application in technology
- >> From conventional magnetism to a railgun
- >> Special high voltage applications in modern day technology

Computer Science and Informatics

- >> What computer science can learn from nature - Evolutionary optimization algorithms and data mining
- >> Importance of online privacy
- >> Human and computer interaction

FURTHER TOPICS

Applied Sciences in Theory and Practice

- >> Research talks: successful scientists from the FH Upper Austria introduce their research projects
- >> Group project: cutting-edge technologies and their impact on society
- >> Sustainability: the interconnections of different technological systems and considerations about how changes affect these systems

Specific Topics

- >> Intercultural communication
- >> The role of women in science and research
- >> Innovation management – from the first idea to a business plan to the marketing of a final product

Interesting Places to Visit

- >> Companies: Visit to Rosenbauer, a company producing the most sophisticated fire engines in the world
- >> Museums: Ars Electronica Center – museum for information technology and technological advancements in society
- >> Cultural highlights in Upper Austria: 31st Pflasterspektakel – street performance festival in Linz



Pictures: FH Upper Austria

We are looking forward to meeting you!



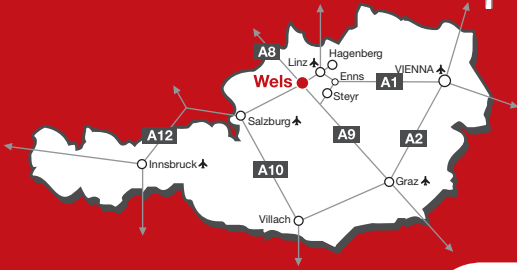
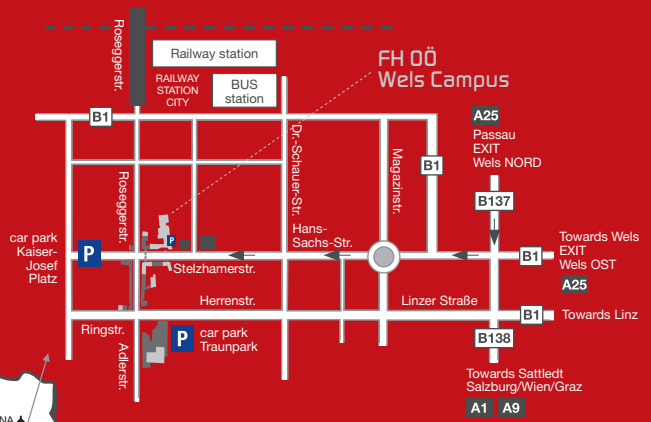


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HAGENBERG | LINZ | STEYR | WELS

University of Applied Sciences Upper Austria
School of Engineering

Stelzhamerstraße 23
4600 Wels | Austria
Tel.: +43 5 0804 44020
isae4w@fh-ooe.at
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f/isae4w



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