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ISAE4W - International Summer Academy in Engineering for Women

10th - 25th July 2018

University of Applied Sciences Upper Austria
Hagenberg, Linz, Wels
Austria | Europe

www.fh-ooe.at/isae4w



UNIVERSITY
OF APPLIED SCIENCES
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What is the ISAE4W?

International Summer Academy in Engineering 4 (for) Women

For the 5th time the University of Applied Sciences Upper Austria offers 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. Besides knowledge transfer in these fields, social, cross-cultural and gender aspects are covered and discussed during lectures and workshops.

In addition to the general programme, each participant can choose one of the three specializations, which will be scheduled for approximately three days:

- >> 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:** 10th - 25th July 2018
- >> **Target group:** women from 18 to 25 years
- >> **Language of instruction:** English
- >> **Venue:** University of Applied Sciences Upper Austria Hagenberg, Linz and 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*:** please send an e-mail to isae4w@fh-ooe.at. You will then receive a personalized registration link to our online application portal (application deadline: 30th April 2018)

* 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 one of three specializations*

Natural Sciences

- >> Developments in medical technology regarding materials and prosthetic design and control
- >> 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

- >> Digital Transformation and Artificial Intelligence
- >> Interaction and Virtual Reality
- >> Digitalization in the Automotive Industry
- >> Digitalization of the everyday workplace

* Duration of the specialization approx. three days

FURTHER TOPICS

Applied Sciences in Theory and Practice

- >> 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
- >> Intercultural communication
- >> Innovation management – from the first idea to a business plan to the marketing of a final product

Women in Engineering

- >> The role of women in science and research
- >> Science World Café: successful scientists from the FH Upper Austria report from their careers and research projects

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: Pflasterspektakel – street performance festival
- Topics are subject to modification



Pictures: FH Upper Austria, Griesböck

We are looking forward to meeting you!





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