

AI-Driven Computer Science¹

Computer Science Meets AI-Driven Software Development

Artificial intelligence methods and tools are fundamentally changing the way software is developed. AI-assisted development tools can increase productivity, enable new approaches to problem-solving, and make software development accessible to a broader range of people. At the same time, comprehensive problem-solving skills, a sound technical understanding, and the ability to critically assess AI-generated results are becoming increasingly important.

The Bachelor's degree program in AI-Driven Computer Science combines a solid education in computer science with the practical application of artificial intelligence in software and systems development. Students acquire technical knowledge in key areas of computer science and learn to use AI tools effectively, responsibly, and in conjunction with human expertise. Particular emphasis is placed on validating AI-generated results and ensuring that they comply with technical, legal, and societal requirements.

Career Profile

Graduates possess a broad education in computer science and specialised expertise in the use of AI tools throughout the entire software development lifecycle. They analyse requirements, design software architectures, develop and test software solutions, and deploy, operate, maintain, and continuously improve software solutions.

Through the effective use of generative AI and intelligent development tools, they can design development processes efficiently and contribute to the quality and innovation potential of digital products. In doing so, they combine sound knowledge of computer science and software engineering with expertise in cloud technologies, IT security, and the responsible use of artificial intelligence.

Graduates work in companies and organisations where software is developed, operated, and continuously enhanced, or where digital products and processes play a key role in creating business value.

Study Focus

- Computer Science Foundations
- Programming and Web Development
- AI-Driven Software Development
- Computer Networks and Cloud Systems
- Generative AI Foundations and Technologies
- Ethics, IT Law, Business, and Sustainability
- Languages: German up to B2, or English plus another foreign language for students already proficient in German

Degree

- Bachelor of Science in Engineering (BSc)

Duration

- 6 semesters (180 ECTS)

Annual Intake

- 40

Admission Requirements

- University entrance qualification (e.g. A-Levels, university pre-entry certificate, completed vocational matriculate exam)
- English at B2 level

Application

- Online – details & deadlines on fh-ooe.at/application

Admission Procedure

- by interview

Language of Instruction

- English

Semester Abroad

- Study abroad opportunities and internships are encouraged and actively supported.

Tuition Fees

- EU/EEA citizens: 363.36 EUR per semester (plus Austrian Student Union fee).
- Citizens from non-EU/EEA countries: 726.72 EUR per semester (plus Austrian Student Union fee).

Contact

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¹ Subject to approval by AQ Austria