



MASTER | DUAL | 4 SEMESTERS | ENGLISH

Digital Innovation and Research

Systems and Network Security | Security Analysis | Security
Technologies | Cyber Resilience Management

Digital Innovation and Research

Society's present challenges call for innovation. Digitalisation and fact-based research are key to this development. We offer a highly qualified education at this interface of applied research, innovation, and digitalisation with a focus on topics such as artificial intelligence, governance, and information security. This study programme enables you to make an important contribution to the realisation of the digital transformation.

Your Studies

The master degree programme is made up of 3 important pillars: innovation, research, and digitalisation.

- **Innovation:** The study programme teaches innovation methods and processes, entrepreneurship, and methods of storytelling.
- **Research:** In addition to scientific methods, you learn how to publish your findings correctly or prepare research proposals. Scientific writing and presenting are key qualifications of researchers.
- **Digitalisation:** The course contents include cutting-edge topics such as artificial intelligence, governance, and data protection. The subjects are taught in small student groups by international lecturers from the field of research. In addition, students work on and further develop a research topic or project throughout their studies.

Your Career

Graduates of this international master degree programme acquire competencies at the interface of digitalisation, innovation, and research, which provides them with the best possible preparation for the job market.

SMEs (Small and Medium-Sized Enterprises)

- **Identify** research and innovation possibilities in the area of computer science in your company.
- **Determine** concrete demand for research.
- **Establish** adequate cooperation projects with higher education institutions and non-university-based research centres.

Higher Education Institutions and Research Centres

- You are able to prepare research projects in such a way that their findings lead to product, process, or service innovations at the partner companies.
- You are able to actively participate in research projects and work on your PhD thesis at a higher education institution.

Research Divisions of Large Companies

- You are equipped with practical experience in research projects.
- You are able to quickly acquire the necessary skills in various fields (e.g., support in preparing proposals, project implementation as a junior researcher, reporting and controlling).



Academic Degree

Master of Science in
Engineering (MSc)



Duration of Studies

4 semesters



Tuition Fees

363.36 € per semester
+ Students' Union fee



Application & Admission Procedure:

apply.fhstp.ac.at



Study Places/Year:

12



Organisational Form:

full-time
dual
English

What Makes Your Studies Unique

Dual learning

The design as a dual-system programme offers you not only a comprehensive theoretical education but also participation in research projects at companies, non-university research centres, universities of applied sciences and universities. An education at the highest scientific level in combination with a strong practical orientation provides you with excellent opportunities for development.

Modern infrastructure

The St. Pölten UAS has state-of-the-art laboratories such as a deep learning environment as well as a Cyber Defense Center. You can use the entire infrastructure around the clock, even off campus.

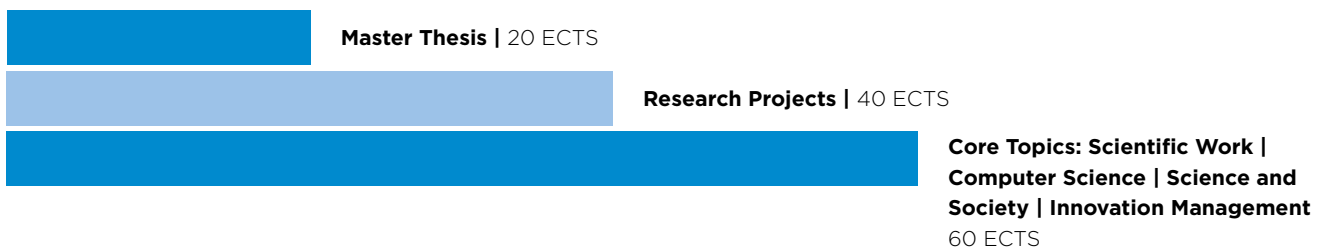
Focus on the professional field

The programme conveys all necessary competencies for various career opportunities. Apart from in-depth knowledge in the field of computer science, it puts particular emphasis on the writing of research proposals and the processing of research results. Under the guidance of experienced professors, you will gain all competencies necessary for the writing of scientific publications.

Linguistic competence

The fact that the teaching language is English promotes your expressive skills. The writing of research proposals and publications in English prepares you for a career in the national and international research landscape.

Weighting of the Course Content



Curriculum

1st year of studies

1 st semester	ECTS
Foundations of Research & Ethics	5
Artificial Intelligence	5
Entrepreneurship	5
Design Thinking	5
Project and Mentoring I	5
Methods of Research and Innovation	5

2 nd semester	ECTS
Trends in Research	5
IT Governance	5
Innovation Management and Product Development	5
Elective I	5
Project and Mentoring II	5
Publishing and Presentation	5

2nd year of studies

3 rd semester	ECTS
Writing of Research Proposals	5
IT Protection	5
Data Driven Innovation	5
Elective II	5
Project and Mentoring III	10

4 th semester	ECTS
Project and Mentoring IV	10
Master Thesis	20

Details and
information on
**Digital Innovation
and Research**





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Information & Contact

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Diversity at the Campus St. Pölten

Everybody is welcome: Inclusion, gender equality, and diversity are important to us. Our campus is accessible barrier-free. Please contact us in good time so that we can take your needs into account.

09/2023