

Department of Computer Science & Security

Bachelor- & Master Programmes | Research Institute



At a glance

In 2006, the bachelor programme IT Security was initiated and has since enjoyed the continuous and growing interest of applicants. The master programme, which was started consecutively, offers an opportunity for internal and external graduates of IT studies to obtain specialized education in the growing field of information security. A new bachelor programme on Data Science and Business Analytics responds to the tremendous cross-industry need for data-science professionals. The Institute of IT Security Research was founded in 2009. The two main focuses of the department, teaching and research, are strongly intertwined and enable a continuous flow of knowledge in both directions. Currently, the department employs approximately 30 full-time associates with academic and practical backgrounds.

Bachelor Programme

IT Security

Complete IT security is the central topic in corporations. There is a large market for experts with both the technical knowledge required for safe IT operation and the ability to undertake managerial duties. In the bachelor programme IT security students receive training in all major areas of IT security.

Graduation: Bachelor of Science in Engineering (BSc)

Length of course: 6 semesters; part-time 7 semesters

Data Science and Business Analytics

The Bachelor programme provides students with necessary data-analysis skills in combination with industry expertise, including among others marketing, media, transportation, security and health.

Graduation: Bachelor of Science in Engineering (BSc)

Length of course: 6 semesters

Master Programme

Information Security

The master programme combines technical competencies in IT infrastructure, security technologies, and software engineering as well as competencies in security management and business administration.

Graduation: Master of Science (Dipl.-Ing.)

Length of course: 4 semesters



Department Highlights

The Institute of IT Security Research is known for its high-level research and has various ongoing projects, which are supported by national and international research funding as well as corporations. The flagship of security research at the UAS is the Josef Ressel Center TARGET (Unified Threat Intelligence on Targeted Attacks), a project which has been running for five years and is financed by the Christian Doppler Research Association and two national companies in the field of security research. Staff members are encouraged to participate in both teaching and research in order to maintain a high level of knowledge exchange within the department.

Teaching is highly valued and advanced pedagogical concepts are applied, e.g. block modules, which means that one subject is taught exclusively for a defined period. This enables students to concentrate on one single topic a time and gives teachers the opportunity to plan their lessons according to didactic requirements. There is a strong demand for graduates of the bachelor and master programme of the department due to practical training as well as up-to-date learning contents.

Research Activities at the Institute of IT Security

Today in most businesses, IT and success go hand in hand and IT security has become a relevant concern for business. The St. Pölten UAS has responded to the demand by establishing the Institute of IT Security Research, the only one of its kind in Austria.

Current fields of research

According to a large-scale German study, attacks on IT and telecommunications represent the most significant threats to the economy, both now and in the future. In particular, the quality and complexity of attacks on IT and targeted attacks of competitors are increasing and are especially dangerous for businesses and public bodies.

The Institute of IT Security Research has very close ties to the private sector and to public institutions. It is tackling the problems by focusing on the topics of biometrics, privacy, traffic and systems analysis and security metrics.

The Institute of IT Security Research at St. Pölten University of Applied Sciences carries out research with national and international partners in the following fields:

- System Security
- Industrial Security
- Security Management
- Kryptography & Authentication
- Privacy & Blockchains



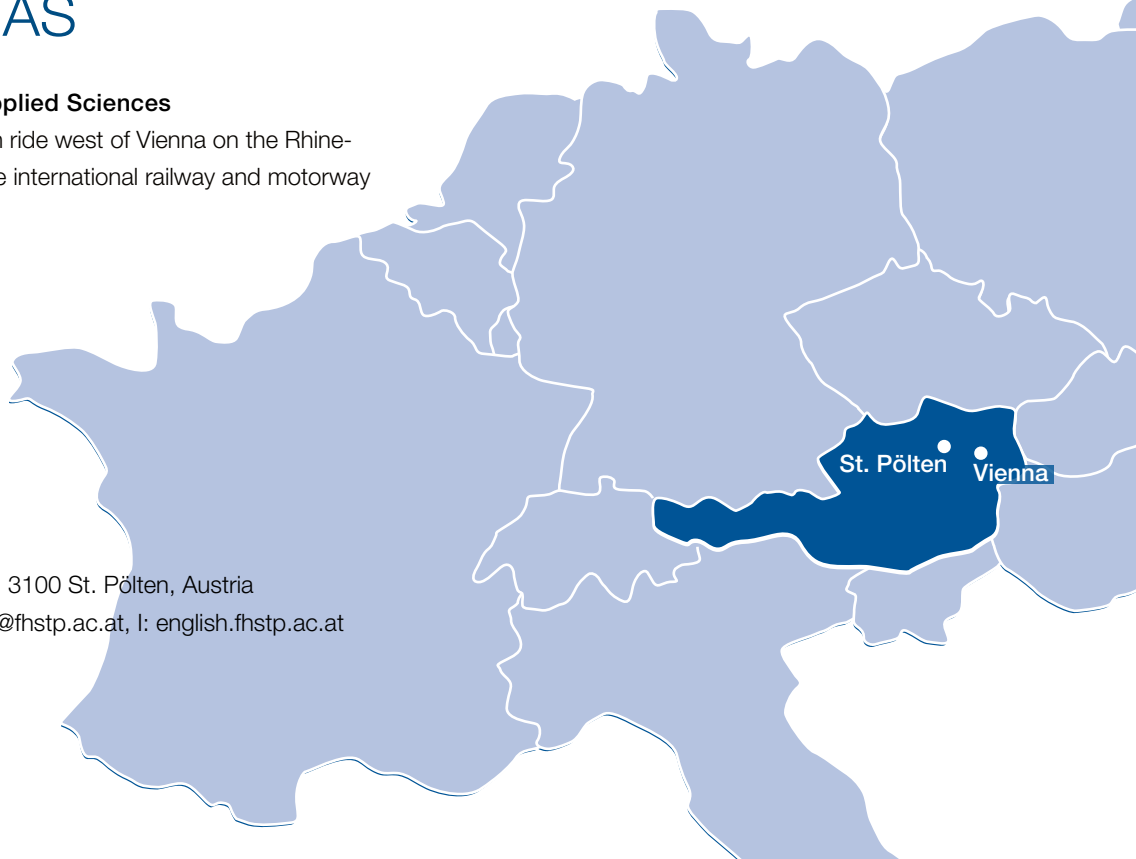
© Foto Kraus

Version: 08/2018

St. Pölten UAS

St. Pölten University of Applied Sciences

St. Pölten is a 25 minute train ride west of Vienna on the Rhine-Danube Corridor with multiple international railway and motorway connections.



Contact Information

Matthias Corvinus-Straße 15, 3100 St. Pölten, Austria

T: +43 2742 313 228, E: csc@fhstp.ac.at, I: english.fhstp.ac.at

#fhstp

