APPOINTMENT OF PROFESSORSHIP

INTELLIGENT AND ADAPTIVE USER INTERFACES

INFORMATION FOR APPLICANTS - SEPTEMBER 2018
CONTENT

3 EXECUTIVE SUMMARY

4 GRAZ UNIVERSITY OF TECHNOLOGY – UNIQUE RESEARCH ENVIRONMENT

6 WHY GRAZ?

8 APPOINTMENT OF PROFESSORSHIP

12 CONTACT
The Faculty of Computer Science and Biomedical Engineering at Graz University of Technology is seeking applicants for the position of a professorship for Intelligent and Adaptive User Interfaces at the Institute of Interactive Systems and Data Science.

The Faculty of Computer Science and Biomedical Engineering at Graz University of Technology is committed to excellence in research and teaching. The faculty’s research activities cover a broad spectrum of topics that are reflected in its main research areas, **Biomedical Engineering, Safety and Security, Intelligent Systems** and **Visual Computing**. We are proud of our outstanding applied and fundamental research expertise and promote interdisciplinary projects. Moreover, our faculty fosters a close dialogue with industry and encourages the establishment of spin-offs.

We are seeking a candidate with **proven scientific expertise** who will represent the field of Intelligent Adaptive User Interfaces in research and teaching. The successful candidate will complement existing strengths at the institute and be an engaged teacher in the Computer Science programs at the bachelor, master, and PhD level.
In world-wide competition with comparable institutions, Graz University of Technology pursues top teaching and research in the fields of the engineering sciences and the technical natural sciences. Knowing about the needs of society and the economy is an integral part of putting together excellent education and training programs. Ultimately, the quality of the education and training at Graz University of Technology is carried by the strength of its knowledge-oriented and applied research.

DEPARTMENT OF COMPUTER SCIENCE & BIOMEDICAL ENGINEERING

Computer science is one of the fastest growing and most innovative sectors. This dynamic is also reflected at the TU Graz. With its 21 professors and 11 institutes, the Department plays a central role within the university and focuses its research on four research fields: Intelligent Systems, Visual Computing, Security & Safety and Computational Life Sciences. The Department’s scientific achievements are remarkable: apart from employing three of the most cited researchers at TU Graz, it has brought out three ERC and three START grant recipients and is represented in major scientific rankings such as the Performance Ranking of Scientific Papers of the National Taiwan University. Moreover, the Department leads a FWF-funded national research network, a Christian Doppler Laboratory, a COMET Competence Center and acquires significant fundery from EU and national sources.

As an innovation engine, the Department significantly contributes to the economy and has tremendous growth potential, with 30 start-ups with more than 1000 employees to attest to that. The services of the Department have a great impact on TU Graz: its top position in international research and teaching, its visibility and effect on the society, its internationalizing PhD and Master studies, its inter-university cooperation and its industrial networking. The professorship will be primarily anchored in the Department of Computer Science and Biomedical Engineering and will strengthen the competence field „Intelligent Systems.“
“THIS PROFESSORSHIP IS AN ESSENTIAL ELEMENT OF THE SCIENTIFIC AND STRATEGIC ORIENTATION OF TU GRAZ.”

UNIV.PROF.DIPL.ING.DR.DR.H.C. HARALD KAINZ
RECTOR GRAZ UNIVERSITY OF TECHNOLOGY
WHY GRAZ?

CULTURAL AND UNIVERSITY TOWN IN THE STYRIAN TUSCANY. WITH PLENTY OF SUN!

CITY OF KNOWLEDGE
GRAZ HAS BEEN A UNIVERSITY TOWN SINCE 1585

Know-how from Graz goes international. Six universities with more than 16 faculties form the basis of the excellent international reputation of Graz as a research and academical location. Research institutions in aerospace and automotive technology, in biotechnology and plant design are located in Graz. The same holds true for private high-tech businesses that export their products worldwide.

CULTURAL CAPITAL
CITY OF CONTRASTS

Graz, the exciting city of culture, and particularly its historic city centre, offers the ideal location to stage seminars, trade fairs or conferences. It is not by chance that Graz is a UNESCO World Cultural Heritage site. For centuries, in the historic city centre around Schlossberg hill, a townscape has been growing that is worthy of protection. Since the Middle Ages, the unique and well preserved architectural styles spanning from Gothic, Baroque, Renaissance, Art Nouveau and, of course, the modern, have not only seen an increase in value but are also indicative of a sense of tradition and art.

In fact, contemporary art and architecture enrich the cultural scene as much as classical culture: the Graz Opera House, theatres and festivals of classical music. In 2003, Graz was also acclaimed European Capital of Culture. “The friendly alien” art centre and the Island in the Mur still bear witness to that year of celebration.
CAPITAL OF CULINARY DELIGHTS
MEET WITH DELIGHT

With Styrian pumpkin seed oil, Käferbohnen beans, Grazer Krauthäuptel lettuce, award-winning wines and a gift for enjoying, Graz people are well ahead of those from other cities. That Mediterranean panache is everywhere.

Sunny spots in cheery beer gardens, promenades in the historic city centre and narrow, atmospheric alleyways, combined with over 2,300 hours of sunshine convey a southern European atmosphere.

CONFERENCE VENUE GRAZ
WHERE SCIENCE MEETS ART, CULTURE AND PASSION

Organisers of scientific conferences in particular have appreciated Graz as a conference destination for many years. Being Austria’s second largest city as well as an important research and business location, Graz has, with good reason, evolved into a renowned conference venue that enjoys an excellent international reputation. Every year, approximately 45000 conference guests make use of the historic and modern congress centres. They appreciate the city’s easy accessibility, as much as its sophisticated cuisine and famous Austrian hospitality. A variety of supporting programmes and day excursions, served with Styrian delicacies and regional wines, add culinary value to any event. Worth mentioning is the pleasant size of the Styrian capital. In fact, many of the excellent hotels are within walking distance of the conference centres. The rich choice of sights and cultural events is another decisive reason for choosing Graz.
APPOINTMENT OF PROFESSORSHIP
INTELLIGENT AND ADAPTIVE USER INTERFACES

The position is limited to 5 years of employment according to Sec. 99 (1) of the Austrian Universities Act (§ 99(1) UG), and will be assigned to the institute of Interactive Systems and Data Science. Subsequently, the faculty intends to establish a permanent professorship in the same field.

This professorship will deal with the development of radically new user interfaces involving a wide variety of human senses. This includes, for example, perceptual user interfaces, immersive displays (e.g., virtual reality), natural user interfaces (touch, gaze, tangibles, haptics, speech, etc.), wearables, embodied interfaces, ubiquitous computing, emotional computing, computational fabrication, multi-modal interfaces, and intelligent user interfaces.

The faculty intends to set up an HCI centre, to be managed by successful candidate. The purpose of this centre will be to design novel interfaces and evaluate them within real-world processes and situations. Therefore, the successful candidate should have a solid understanding of and experience with methods of human computer interaction, interaction design as well as usability engineering and evaluation methodologies.
"THE PROFESSORSHIP IS A REINFORCEMENT FOR THE DEPARTMENT OF COMPUTER SCIENCE AND BIOMEDICAL ENGINEERING AND IT EMPHASIZES THE RESEARCH EXCELLENCE AT TU GRAZ."

UNIV.PROF.DIPL.ING.DR. HORST BISCHOF
VICE RECTOR, GRAZ UNIVERSITY OF TECHNOLOGY

APPLY NOW!
REQUIREMENTS FOR CANDIDATES

• An Austrian or equivalent foreign university education with a completed doctoral degree (PhD)
• Outstanding scientific achievements (with habilitation equivalent qualification) in the field of User Interfaces, documented by internationally recognized publications and conferences
• Successful securing of grants for third-party funded projects as well as implementation of said projects
• Outstanding pedagogical and didactic abilities
• The qualification to lead and promote research teams

Very good English language skills and the willingness to learn German are required. Relocation to the greater Graz area is also expected.

Graz University of Technology aims to increase the proportion of women, in particular in management and academic staff, and therefore qualified female applicants are explicitly encouraged to apply. Until a balanced ratio of men and women has been achieved at the university, preference will be given to women if applicants are equally qualified.

Graz University of Technology actively promotes diversity and equal opportunities. Applicants are not to be discriminated against in personnel selection procedures on the grounds of gender, ethnicity, religion or ideology, age, sexual orientation (Anti-discrimination). People with disabilities and who have the relevant qualifications are expressly invited to apply.
APPLICATION PROCESS

Interested applicants are requested to send a detailed application including

- a C.V. (including copies of certificates and diplomas) with professional/scientific background
- a list of publications (including copies of the five most important publications),
- an outline of the past and planned activities in research as well as a concept for the future research development (up to 5 pages), and
- a description of the teaching experience (up to 5 pages) and teaching evaluations (if available) and
- the application form available here

at the latest by

03/12/2018
(email timestamp)

per email to the Dean of the Faculty of Computer Science and Biomedical Engineering at Graz University of Technology, Roderick Bloem, per email: applications.csbme@tugraz.at

The hearings for the professorship will take place in the weeks of 4 February to 15 February 2019. Candidates should be available for interviews in this period. For further questions please contact the dean (roderick.bloem@tugraz.at).
CONTACT

Candidates should submit their detailed application to the Dean of Computer Science and Biomedical Engineering, Prof. Roderick Bloem: applications.csbme@tugraz.at.

For questions please contact Prof. Roderick Bloem (roderick.bloem@tugraz.at).