The Department of Computer Science and Biomedical Engineering at Graz University of Technology is seeking applicants for the position of a **professorship for Bioinformatics at the Faculty of Computer Science and Biomedical Engineering**.

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 is able to represent the field of bioinformatics at an interdisciplinary level and with strong commitment. The successful applicant will be expected to **lead a future-oriented, interdisciplinary research program** that focuses on the interface between information sciences, medicine and biology using data from modern diagnostic and analytical methods. The professorship is also particularly intended to strengthen the existing inter-university cooperation **BioTechMed Graz**, founded by Graz University of Technology, the Medical University Graz and the University of Graz, and contribute to this cooperation through a broad range of experience.
GRAZ UNIVERSITY OF TECHNOLOGY

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 BIOINFORMATICS

The new professor will be employed on a full-time permanent position according to section 98 of the Austrian Universities Act (§ 98 UG) and will be assigned to a newly founded institute at the faculty.

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Participation in teaching at bachelor, master and PhD level and active participation in academic autonomy are expected. Very good English language skills and the willingness to learn the German language are required. Relocation to the greater Graz area is also required.

MAIN RESEARCH AREAS

- High-throughput sequencing algorithms and applications
- Computational RNA biology and regulatory genomics
- Analysis and modeling of high-throughput mass spectrometry data
- Biomedical data integration and visualization
- Computational systems biology and network medicine
- Computational immunology/ bioinformatics of microbes and microbiomes
- Computational pathology
- Machine learning/ deep learning in biomedical data
- Analysis and bioinformatics in clinical applications.
"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

- A completed domestic or equivalent foreign university education with a doctorate (PhD)
- A relevant habilitation qualification (venia docendi) or equivalent qualification
- Outstanding scientific achievements documented by internationally recognized publications
- Pedagogical and didactic abilities
- Experience in teaching (bachelor, master and PhD level)
- Integration into the international research community
- Successful securing of grants for third-party funded projects as well as implementation of said projects
- The qualification to lead and promote research teams

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 and teaching as well as a concept for the future development of the institute,
- 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 week of 11 February 2019. Candidates should be available for interviews in this period. For further questions, please contact Christian Baumgartner (christian.baumgartner@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. Christian Baumgartner (christian.baumgartner@tugraz.at).