Professor Biomedical Imaging

with a full-time permanent contract (§98 UG) at the Department of Computer Science and Biomedical Engineering.

Graz University of Technology is the oldest science and technology research and educational institute in Austria. For over 200 years, it has been an important international center for research and teaching. The university delivers top performances in its five Fields of Expertise, Advanced Material Science; Human & Biotechnology; Information, Communication & Computing; Mobility & Production; and Sustainable Systems. The university boasts intensive collaboration with other national and international research and educational establishments and with business and industry worldwide.

The Department of Computer Science and Biomedical Engineering at Graz University of Technology is an internationally highly ranked department committed to excellence in research and teaching. The department performs highly visible research in its main areas of focus: Biomedical Engineering, Safety and Security, Intelligent Systems, and Visual Computing. We are proud of our outstanding basic and applied research and encourage interdisciplinary projects. Moreover, our faculty fosters a close dialogue with industry and encourages and supports the creation of spin-off companies.

Job Description

We are looking for a candidate with an excellent scientific track record to represent the field of “Biomedical Imaging” in research and teaching and complements the research strengths of other groups at the department.

The professorship will be part of the Institute of Medical Engineering. The Institute of Medical Engineering is equipped with a clinical high-end 3T magnetic resonance imaging (MRI) system with high performance gradients and BioMatrix sensors, including optical motion tracking (Magnetom Vida). This infrastructure is shared within Graz University of Technology and jointly operated with the department of Psychology at University Graz. Preference will be given to candidates with a research focus on in vivo magnetic resonance (MR) and/or multimodality imaging, and in particular, the development of new methods for diagnostic and/or experimental applications in medicine and radiology or basic science. This comprises all basic aspects of MR signal generation and analysis as well as new measurement strategies and modern reconstruction techniques, such as those involving artificial intelligence (AI). Typical areas of interest include highly accelerated robust imaging, new functional or metabolic MRI techniques, and biomarker imaging.

The successful candidate should be able to comprehensively teach all methods and aspects of biomedical imaging. Teaching should include new experimental methods and the related biomedical fundamentals in our Bachelor’s, Master’s and PhD programs in Biomedical Engineering and Computer Science. The candidate should be an engaged mentor for our students.

Cooperation within the faculty and with scientists and clinical departments in “BioTechMed Graz” is expected especially in the field of neuroscience.

Requirements

- A completed university education with a doctoral degree (PhD)
- A relevant habilitation (venia docendi) or an equivalent qualification
- Excellent scientific achievements
- Integration in the international research community
- Excellent didactic skills
- Management and leadership abilities
- Excellent command of English and command of German or the willingness to acquire it

We also value

- International experience
- Experience with acquisition of research grants and/or industrial collaboration
- Gender and diversity competence

We expect the successful candidate to transfer her or his residence to the area of Graz.
Our offer

The advertised position is a tenured full professorship with a competitive salary. The university will provide funding for one or more PhD students and the necessary research equipment. A combination of national and European agencies provides an excellent funding landscape and ample opportunities exist to collaborate with industry.

Graz University of Technology provides excellent working conditions in a vibrant scientific community, combined with the outstanding living quality of the Graz area. We support your partner's career through a dual career service and we assist with the relocation process.

Equal opportunity employer

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 who have the relevant qualifications are expressly invited to apply.

How to apply

Interested applicants are requested to submit by email a detailed application in English language including

- a CV including a description of research and teaching experience
- a teaching statement and a research statement (previous achievements and future perspectives)
- a list of publications including a list of the five most important publications
- copies of certificates and diplomas
- the application form available via https://www.tugraz.at/fileadmin/user_upload/Fakultaeten/INFIO/Images/jobs_grants_calls/Professuren/Formular_Bewerbung_BMI.doc

The application should be sent to the dean of the faculty of Computer Science and Biomedical Engineering at applications.csbme@tugraz.at.

For further question, please contact Gernot Müller-Putz (gernot.mueller@tugraz.at).

Important Dates

The deadline for applications is **26 November 2020**.

The hearings for the professorship will take place in the week of **22 February 2021**. Candidates should be available for interviews in this period.

The Dean: Roderick Bloem