Faculty of Mathematics, Physics and Geodesy

A tenure track professorship at Graz University of Technology for the field of Computational Modelling of Superconducting Materials at the Faculty of Mathematics, Physics and Geodesy is to be filled pursuant to § 99 para. 5 of the Universities Act.

The position is initially a University Assistant with Doctorate, 40 hours per week, and the successful candidate is expected to start on June 1, 2022 at the Institute of Theoretical and Computational Physics.

Upon agreement on a qualification agreement, the candidate will be appointed as assistant professor. As soon as the qualification agreement has been fulfilled, the position will be converted into a tenured position as associate professor.

Technical and social skills:
- Required academic qualification: PhD or equivalent degree
- Field of Study: Physics

Wanted qualifications:
1) Excellent knowledge in the field of ab-initio modelling of solids (density functional theory, GW approximation, structure prediction methods), ideally with experience in the prediction of new electron-phonon based superconducting materials.
2) Extensive experience with numerical methods and implementations required for these research questions.
3) Successful, internationally embedded research and publication activity.
4) Experience in implementing research projects with commercial partners, ideally to the point of patent submission.
5) Communication, organisational and teamwork skills, as well as willingness to design, apply for and implement research projects.
6) Enthusiasm for excellent teaching, university teaching experience as well as the ability and willingness to teach at all curricular levels (Bachelor, Master, Doctorate), to supervise theses and to promote young academics.

To ensure effective international representation of the research group and its work, excellent spoken and written competence in English is required. Specifically, willingness to teach courses in English is expected. Fluency in German or the willingness to acquire it is also required. The successful candidate is also expected to transfer her/his residence to the area of Graz.

Duties:
1) Heading a working group in the field of computational materials modelling.
2) Independent scientific work in the field of Modelling Superconducting Materials
3) Close cooperation with business partners in this field.
4) Acquisition of third-party funded projects.
5) Supervision of bachelor, master and doctoral theses.
6) Teaching in the field of theoretical physics, and duties in the programming education in the Department of Physics.

Information on salary:
- Category: B1 University assistant with doctorate
- Gross salary: EUR 4,487,80

Information about application:
- Required documents: CV, certificates, list of publications, teaching experience
- E-Mail-Adresse for receipt of application: bewerbungen.mpug@tugraz.at
- E-Mail-Subject (mandatory): Tenure track professorship, identification number 5150/22/003, Mrs/Mr First name LAST NAME
- Postal adress for applications: Graz University of Technology, Att. to the Dean of Mathematics, Physics and Geodesy, Univ.-Prof. Dipl.-Phys.Dr. rer. nat. Roland WÜRSCHUM, Petersgasse 16, 8010 Graz AUSTRIA
- Application deadline: March 2, 2022 (incoming email/mail at the latest until 23:59 MEZ)
- Identification Number: 5150/22/003 (mandatory information on the application)

Contact for further informations at the Institute:
- Univ.-Prof. Dipl.-Phys.Dr. rer. nat. Wolfgang VON DER LINDEN, vonderlinden@tugraz.at