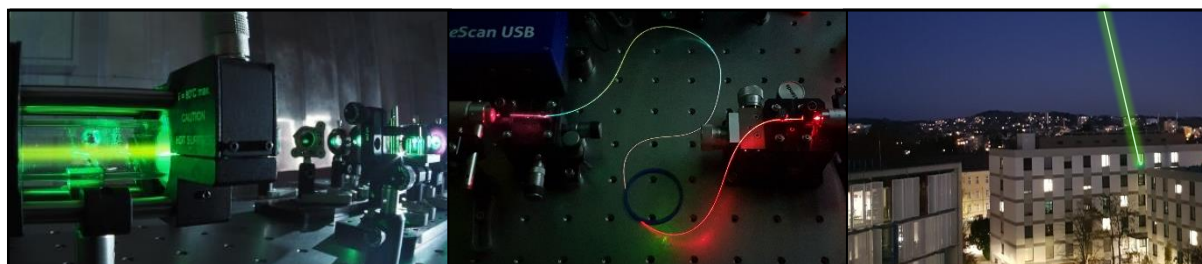


Graz University of Technology is the longest-established university of technology in Austria. Here, successful teams of students, talented up-and-coming scientists, ambitious researchers and a lively start-up scene enjoy an inspirational environment as well as access to top-quality equipment. And all this in one of the most innovative and livable regions in Europe. TU Graz offers an inspiring working environment with outstanding infrastructure and service-oriented university management.



University Assistant with Doctorate / Postdoc Position (m/f/d) in the Area of Laser Spectroscopy

40 hours/week, starting presumably on May 1st, 2023, limited to 6 years (initially for 2 years with the option of an extension for 4 years)

We are seeking a postdoctoral experimentalist to work with us on experimental laser spectroscopy in different spectral regions to study photophysical properties and ultrafast dynamics in molecular gasses. We have several projects aiming at “electronic fingerprint spectroscopy” unravelling ultrafast electron dynamics in photo-induced processes both with high spectral and high temporal resolution. Our works are currently supported by an ERC Starting Grant (no. 947288) and an FWF START Prize (no. Y1254). We are expanding our studies to biological, photochemical and astrophysical applications and are looking for a highly motivated postdoctoral colleague further strengthening our team aiming at “coherent sensing”.

Duties and Responsibilities:

- Implementation of new spectroscopic experiments in gaseous, liquid and solid-state samples in different spectral regions (NIR, VIS, UV) with high spectral and/or high temporal resolution (MHz/GHz and femtosecond scale, respectively)
- Development of dual comb spectroscopy for novel interdisciplinary (biological, photochemical and/or astrophysical) applications
- Support and improvement of the two operational dual comb spectrometers (working in the visible and the near ultraviolet)
- Contribution to the modernization of the physics basic laboratory courses (bachelor degree)

Required Skills and Qualifications:

- Completed doctoral studies in physics
- Experience in experimental laser spectroscopy
- Ability to write peer-reviewed publications, evidenced by a strong publication record
- Strong background in high harmonic generation and/or frequency comb spectroscopy is an advantage
- Experience with absorption spectroscopy with high spectral and/or high temporal resolution desired
- High motivation in interdisciplinary research uniting modern laser physics with biological, photochemical and/or astrophysical applications
- Demonstrated ability to address complex problems creatively and to work effectively both independently and in a team
- Evidenced ability to supervise students
- International experience

The pursuit of advanced postdoctoral qualifications like the habilitation is desired and explicitly supported.

We offer:

- A Welcome Center, that supports international employees in visa, entry and residence permits, looking for accommodation, living in Graz, and networking and integration
- Interesting area of responsibility
- Excellent work-life balance (flexible working schedule)
- Possibility for Home-Office (for a maximum of 40 % of the working hours per week)
- University's sports program
- Exciting opportunities for professional and personal development
- Public transport subsidy
- Workplace Health Management
- Award for being the most family-friendly enterprise in Styria 2018
- Wide range of food on campus
- Shopping Discounts

We offer an annual gross salary based on full-time of at least **€ 60.926,00** overpayment possible depending on qualifications and experience.

Graz University of Technology actively promotes diversity and equal opportunities. People with disabilities and who have the relevant qualifications are expressly invited to apply.

Protecting the health of our students and employees is of high importance to our university. For this reason, equally qualified candidates who are fully vaccinated against COVID-19 will be given preference.

Please send your complete application (letter of motivation, curriculum vitae, publication list, two letters of recommendation, certificates and other documents indicating the position and reference number **5110/23/001** to bewerbungen.mpug@tugraz.at

Deadline for application: March 19th, 2023

Job ID: 5110/23/001

Contact:

Graz University of Technology
Dean of the Faculty of Mathematics, Physics and Geodesy
Univ.-Prof. Dr.rer.nat. Jussi Behrndt
Petersgasse 16, 8010 Graz

www.iep.tugraz.at

Information on data protection regulations can be found under following link: www.tugraz.at/go/datenschutzhinformaton-pa