



The Graz University of Technology (TU Graz) is a technical-scientific research institution rich in tradition, based in Austria. TU Graz is an international top performer in all its five Fields of Expertise, capitalising on intense collaborations with industry and other research facilities worldwide. Within the European higher education landscape, TU Graz is a strong player in attracting talent and resources.

The Institute of Experimental Physics at Graz University of Technology has an open position within the **ERC starting grant ELFIS**, available from 1<sup>st</sup> of March 2022 or later for an initial fixed-term of 3.5 years for a:

## **Project Assistant (prae doc) / PhD Position (f/m/d) in the field of laser physics**

30 hours/week

Topic of the PhD thesis: **High resolution UV absorption spectroscopy**

### **Duties and Responsibilities:**

- Research and development in the field of laser spectroscopy
- Setup and characterization of different laser sources
- Development of dual comb spectroscopy in the near and extreme ultraviolet spectral region
- Contribution to organizational tasks and outreach activities of the institute

### **Required skills and experience:**

- Completed academic studies (masters or diploma) in Physics
- Good knowledge in at least one of these fields:
  - Laser physics
  - Static and/or time-resolved absorption spectroscopy
  - Fourier transform spectroscopy or dual comb spectroscopy
  - Optical frequency combs
  - High harmonic generation and characterization
- Knowledge in programming favorable (Matlab, LabView and/or Python)
- Social, communication und didactic skills
- Good academic performance is appreciated
- Good English language skills
- Independent problem solving
- High Self-Motivation

### **We offer:**

- Access to the latest technologies
- Exciting opportunities for professional and personal development
- Excellent work-life balance (flexible working schedule)
- Dynamic, creative and multi-disciplinary team
- Informal and stimulating working atmosphere
- University's sports program
- Workplace Health Management
- Award for being the most family-friendly enterprise (2018)

Are you interested? Please apply with your complete application (motivation letter, CV, certificates) by the 15<sup>th</sup> of January 2022 at the latest via E-Mail to [bernhardt@tugraz.at](mailto:bernhardt@tugraz.at). Please refer to the posting **ELFIS-PhD2** in your email subject.

We offer a minimum annual gross salary based on full-time of € 41,601.--, overpayment possible depending on qualification and experience.

Graz University of Technology aims to increase the proportion of women. **And our team is still lacking female PhD students. Therefore we expressly want to encourage qualified women to apply!**

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

### **Contact**

Assoc. Prof. Dr. Birgitta Bernhardt  
Graz University of Technology  
Institute of Experimental Physics  
Petersgasse 16, 8010 Graz  
[www.lep.tugraz.at](http://www.lep.tugraz.at)

