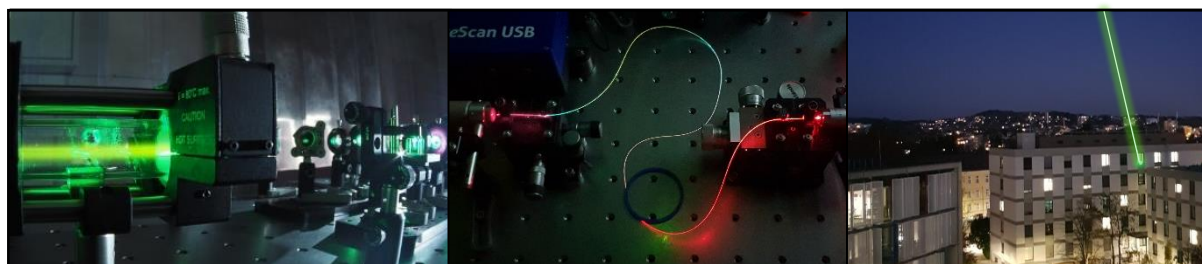


Graz University of Technology is the longest-established university of technology in Austria. Here, successful teams of students, talented up-and-coming scientists, ambitious researchers and a lively start-up scene enjoy an inspirational environment as well as access to top-quality equipment. And all 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 without Doctorate / PhD Position (m/f/d) in the Area of Laser Spectroscopy

40 hours/week, starting presumably on April 1st 2023, for 4 years

We are seeking a Ph.D. candidate to work with us on experimental laser spectroscopy in different spectral regions. 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 environmental, photochemical, biological, and astrophysical applications and are looking for a highly motivated Ph.D. candidate further strengthening our team aiming at “coherent sensing”.

Duties and Responsibilities:

- Development of dual comb spectroscopy for interdisciplinary applications in
 - environmental sensing (via absorption spectroscopy),
 - bio-physics (via Raman),
 - photo-chemistry (pump probe spectroscopy) and/or
 - laboratory astrophysics (via absorption spectroscopy)
- Basic and Advanced Laboratory Courses in Physics
- Administrative tasks linked to teaching

Required Skills and Qualifications:

- Experience with laser experiments
- Experience with measurement and data analysis programs/languages (like Labview, Matlab, Python)
- Experience with student supervision (e.g. during lab courses)
- High motivation in interdisciplinary research uniting modern laser physics with biological, photochemical and/or astrophysical applications

We offer:

- Interesting area of responsibility
- Collegial and friendly working atmosphere
- Flexible working schedule (e.g. possibility for home office (40 %), paid lunch break)
- International training and teaching opportunities
- Seal of quality for in-house advancement of women
- Award for being the most family-friendly company in Styria
- Subsidy for public transport
- University's sports program
- Shopping Discounts
- Workplace Health Management
- Top research infrastructure and access to the latest technologies
- Exciting opportunities for professional and personal development
- Safe and stable working environment
- Company pension funds

We offer an annual gross salary based on full-time of at least **€ 45 882,20** overpayment possible depending on qualifications and experience.

Graz University of Technology aims to increase the proportion of women and therefore expressly invites qualified women to apply. Graz University of Technology actively strives for diversity and equal opportunities. People with disabilities and appropriate qualifications are expressly invited 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.

Please send your complete application (letter of motivation, curriculum vitae, publication list, certificates and other documents indicating the position and reference number **5110/2023/708**

We look forward to your application on our job portal!

<https://jobs.tugraz.at/de/jobs/709134d0-d56b-09a2-f35a-63c91aa5e12c/apply>

Deadline for application: March 22nd 2023

<https://www.tugraz.at/institute/iep/forschung/coherent-sensing>

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