2 PhD candidate positions in Atmospheric Chemistry

30 hours/week | limited to 3 years

TU Wien is Austria's largest institution of research and higher education in the fields of technology and natural sciences. With over 26,000 students and more than 4000 scientists, research, teaching and learning dedicated to the advancement of science and technology have been conducted here for more than 200 years, guided by the motto "Technology for People". As a driver of innovation, TU Wien fosters close collaboration with business and industry and contributes to the prosperity of society.

The newly formed **Vienna Research Group** on “Atmospheric-Cityscape Aerosol Interactions” funded by the Viennese Science Fund (WWTF) at the **Institute for Materials Chemistry** offers two temporary part-time predoc-positions (30 hours/week, limited to expected 3 years) in the fields of urban atmospheric chemistry and aerosol formation, with a strong focus on experimental research methods and related data analysis tools. You will work with a state-of-the-art Orbitrap mass spectrometer and use Fourier transformation infrared spectroscopy to investigate the contribution of anthropogenic non-combustion sources to urban aerosol formation.

Tasks:
- Experimental research including field and laboratory measurements in Vienna and contribution to international atmospheric simulation chamber experiments
- Development of data analysis workflows for mass spectrometry data and/or setup of new approaches in aerosol FTIR analysis
- Writing a dissertation in Atmospheric Chemistry: The majority of your time will be spent doing research toward your doctoral thesis
- (Co-)editing and (co-)authoring of scientific publications, presentations and research proposals
- Cooperation and guidance of bachelor and master students and participation in teaching activities of the research group

Your profile:
- Finished Master Studies Degree in the fields of chemistry, physics, environmental sciences or related fields.
- Ideally knowledge in Aerosol Science, Atmospheric Chemistry or Mass Spectrometry/FTIR
- Ideally experience with python or other data analysis software/programming tools
- Ability to work both in a team and independently, problem-solving skills and innovative thinking
- Very good skills in English communication and writing, German communication and writing skills are of advantage

We offer:
- Interdisciplinary and exciting field of work with a lot of research cooperations where chemistry meets physics meets engineering
- Continuing personal and professional education, a wide range of training opportunities and flexible working hours
- Completion of a doctoral degree at the internationally renowned TU Wien
- Central location of workplace as well as good accessibility (U1/U4 Karlsplatz)
- A creative working environment in one of the most liveable cities in the world with a range of attractive social benefits

TU Wien is committed to increasing the proportion of women in particular in leadership positions. Female applicants are explicitly encouraged to apply. Preference will be given to women when equally qualified, unless reasons specific to a male applicant tilt the balance in his favor. People with special needs are equally encouraged to apply.

Entry level salary is determined by the pay grade B1 of the Austrian collective agreement for university staff. This is a minimum of currently EUR 2,458.00/month gross, 14 times/year for 30 hours/week. Expected start date is between August 1st 2023 and July 31st 2024.

For related questions and your application (Letter of Interest, CV, List of Publications):
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TECHNOLOGY FOR PEOPLE