

The Department of Materials Sciences and Process Engineering, Institute of Molecular Modelling and Simulation is currently seeking a

Postgraduate Research Associate (project employment) (Reference code: 229)

Extent of employment: 40 hours per week
Duration of employment: 1st of March 2023, limited to 3 years

Workplace: 1190 Vienna, Muthgasse 18

Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): B1, € 3.058,60

Responsibilities

- Be part of the Marie Skłodowska-Curie Actions Doctoral Network “Metal-Containing Radical Enzymes – MetraZymes”
- Be the responsible doctoral candidate for the Project “In silico modelling of natural and artificial metalloenzymes for atom transfer radical reactions, using machine learned neural networks”
- Model catalytic process of native and artificial metalloenzymes
- Use machine learning in the context of mixed quantum mechanical / molecular mechanical simulations for metalloenzymes
- Perform molecular dynamics simulations using the Buffer Region Neural Network approach
- Collaborate in an international team of interdisciplinary researchers of Metrazymes

Required skills and qualifications

- Diploma degree in Biotechnology, Chemistry or other equivalent university degree
- Language skills: English
- Strong background in computational and/or theoretical chemistry
- Interest in the development of machine-learned potentials
- The Marie-Curie Skłodowska-Curie international mobility rule applies: candidates must not have resided or carried out their main activity in Austria for more than twelve months in the previous three years

Desirable skills and qualifications

- Experience in molecular simulations of biomolecules
- Good programming skills in C++

Applications can be submitted until: 7th of December 2022

University of Natural Resources and Life Sciences Vienna seeks to increase the number of its female faculty and staff members. Therefore qualified women are strongly encouraged to apply. In case of equal qualification, female candidates will be given preference unless reasons specific to an individual male candidate tilt the balance in his favour.

People with disabilities and appropriate qualifications are specifically encouraged to apply.

Please send your job application incl.

- Motivation letter
- CV incl. publication list
- Contact details of two professional references
- Copies of degree certificates

to BOKU Personnel Management: kerstin.buchmueller@boku.ac.at (Reference code: 229)
and to the Metrazymes project Officer: raheleh.pardehkhorrarn@tu-darmstadt.de

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process.

www.boku.ac.at