The Department of Biotechnology and Food Science, Institute of Food Technology is currently seeking a

Postdoctoral Research Associate

(Reference code 16)

Extent of employment: 40 hours per week
Duration of employment: 1st of March 2026, limited to 28th of February 2030
(with option for temporary extension)
Workplace: 1190 Vienna
Allocation in compliance with the Collective Agreement for University Staff to job group: B1 lit. b
Gross monthly salary: (depending on previous eligible experience) at least: € 5.014,30
(payable 14 times per year)

Responsibilities

- The postdoctoral position in "Bioelectrocatalysis for Food Technology" is placed at the intersection of electrochemistry, biotechnology and food technology and involves research, teaching and administrative tasks
- The research will focus on the application of enzymes and proteins as biorecognition elements in biosensors for food quality and food safety, as well as on bioelectrocatalysis for the synthesis of flavors, antioxidants, etc.
- In addition to the conversion of conventionally used raw materials, an important aspect of our research is the valorization of agricultural and industrial side streams.
- Participation in outreach activities to explain and popularize science for the general public
- Contributing to laboratory management, including onboarding, safety, instrument maintenance, etc. is also required

Required skills and qualifications

- Doctoral degree/PhD in a relevant natural science field
- Language skills: Fluent in written and spoken English, intermediate German language skills (Level B1)
- Skilled in the setup of electrochemical experiments and the application of biosensors
- Strong background in electrode materials and the chemical modification of electrode surfaces

- The research requires familiarity with the enzyme-electrode interface covering especially the materials science basics, but also biochemical fundamentals
- Technical expertise in methods from electrochemistry, material science, analytical chemistry, biochemistry, organic synthesis and computational methods for data analysis and modelling is required to perform research tasks
- The ability and motivation to translate basic scientific findings into industrial applications is required to bridge fundamental and applied research and collaborate with industry on R&D projects
- Teaching and educational skills are necessary for supervising laboratory work, tutoring bachelor-, master-, and doctoral candidates, teaching courses and supervising seminars
- Knowledge of enzymes as biorecognition elements and bioelectrocatalysts, especially on protein structure and enzymatic activity
- Firm grasp of electrochemical techniques such as amperometry, cyclic voltammetry, etc. and analytical methods to characterize electrodes and surface modifications
- Skilled in computational methods for the analysis and modelling of results
- Good communication skills and high motivation to engage students and the general public
- Experience in teaching of laboratory courses and lectures in English or German
- Basic skills in proposal writing and project management

Desirable skills and qualifications

- Basic knowledge in the field of food technology to understand the analysis of food products and the function food ingredients
- Impedance spectroscopy, EQCM
- Characterization methods for electrode surfaces such as SEM
- Use of microelectrodes
- Microfluidic devices
- Qualified as a first responder, previous participation in laboratory safety training

Applications can be submitted until: 24th of February 2026

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
- References (contact information of 3 supervisors/mentors)
- Portfolio (acquired knowledge and skills in research, teaching and management)
- Research statement (summary of past and present research as well as future research ideas for this position)

to HR Management, BOKU University, Peter-Jordan-Straße 70, 1190 Vienna;

E-Mail: recruiting@boku.ac.at. **(Reference code: 16)**

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

www.boku.ac.at