

The Department of Economics and Social Sciences, Institute of Sustainable Economic Development, is currently seeking a

Postdoctoral Research Associate

Supply side measures for providing biomass for the chemical industry and the implications for reaching climate neutrality in Europe (COE Project 4.1)

assigned to research program *Circular Prospects* of **Cluster of Excellence (CoE) Circular Bioengineering** <https://www.circularbioengineering.at>

(Reference code 203)

Extent of employment: 20 hours per week

Duration of employment: 1st of December 2025, limited to 30th of November 2029

Workplace: BOKU University, 1180 Vienna, Feistmantelstraße 4

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: € 2.466,50
(payable 14 times per year)

About the Position:

- The researcher is responsible for modeling the role of biomass in the European energy and industrial sectors. In particular, state-of-the-art modeling approaches (in particular PyPSA-EUR) should be extended to develop climate neutrality scenarios that assess the trade-off between using biomass in different industrial and energy sectors - and increasing carbon sinks. This involves understanding differences for country carbon balances, under different assumptions about how the land-use, land-use change and forestry sectors are accounted for within the EU
- In this context, the researcher is responsible for the development of relevant research problems, for designing and implementing associated models, for presenting at conferences, and for publishing research results in international peer-reviewed journals
- The researcher is embedded in a team in the cluster of excellence Circular Bio-Engineering. They will closely collaborate with and co-supervise a PhD student who assesses the role of biomass in the chemical sector in PyPSA-EUR. The researcher is also responsible for communication within the other research programs in the Cluster of Excellence and for coordinating with other teams in program 4 of the cluster

Required skills and qualifications

- Doctoral degree/PhD in Energy Economics or similar
- Language skills: very good English skills
- Excellent experience in the model based analysis of energy or power systems
- Experience in the collaborative development of software, using version control platforms such as Github
- Experience in publishing in international, energy related, peer-reviewed journals
- Experience in the acquisition and/or management of research projects

Desirable skills and qualifications

- Experience in using the PyPSA-EUR model
- Supervision of master or PhD students

Applications can be submitted until: 28th of October 2025

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 to Personnel Management, University of Natural Resources and Life Sciences, Peter-Jordan-Straße 70, 1190 Vienna; E-Mail: recruiting@boku.ac.at.

(Reference code: 203)

- Please use this **Application form – Postdoc-positions**
- Please note that we will not be able to process your application without this form and unless it is sent to recruiting@boku.ac.at
- Following additional documents have to be submitted as .pdf files:
 - Curriculum vitae
 - Copy of certificates from the applicant's bachelor, master/diploma and doctoral studies
 - A translation of the documents is necessary if the original documents are not in English or German

For information on the further application procedure – online hearing and interviews – see <https://www.circularbioengineering.at/jobs>

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

www.boku.ac.at