

The Institute of Systems Sciences, Innovation and Sustainability Research at the University of Graz is looking for a

Project employee without doctorate

(30 hours a week, temporary employment for 3 years,
position to be filled as of September 2022)

Your duties

- Participation in the research of the Horizon Europe project FREE4LIB – Feasible recovery of critical raw materials through a new circular ecosystem for a Li-Ion battery (LIB) cross-value chain in Europe regarding
 - the assessment of the environmental, social, and circularity performance of the LIB's recycling and re-manufacturing technologies and
 - the conceptualization of a digital battery passport to improve LIB's traceability.
- More specifically, the research of the PhD candidate will involve:
 - conducting social risk assessments and a social life cycle assessment based on the UNEP/SETAC guidelines,
 - utilizing multi-regional input-output (MRIO) analysis for estimating the potential wider social impacts of upscaling the developed recycling processes on the European economy,
 - conceptualizing and conducting a circularity assessment and a second-order sustainability assessment,
 - conceptualizing a digital product passport as input for prototype development.
- Conducting a dissertation in the context of the research of the FREE4LIB project within the research group of Prof. Baumgartner (Christian-Doppler-Research Laboratory for Sustainable Product Management (circular.uni-graz.at) and related projects)
- Participation in conferences, publications in peer-reviewed journals and other media of knowledge transfer
- Participation in organizational and administrative tasks
- Continuing education in research skills

Your profile

- Diploma or Master's Degree
 - in sustainability sciences (e.g., environmental systems sciences, sustainable development, industrial ecology) or social sciences (e.g., business administration, economics, ...), or
 - in engineering with proficiency in sustainability management and assessment
- High commitment and motivation for scientific work and the completion of a doctoral degree
- Proficiency in qualitative and/or quantitative research methods
- Data analysis skills (e.g., R, Python, ...)
- Very good written and spoken English skills
- Structured and goal-oriented thinking
- Self-initiative and reliability as well as organizational, cooperation and team skills
- Very good communication skills
- Motivation to work in international and interdisciplinary teams
- Responsible way of working, resilience and problem solving ability
- Publication experience is beneficial



About the project

FREE4LIB aims to develop at Technological Readiness Level (TRL) 5-6, new sustainable and efficient solutions (for disassembly, pre-treatment and materials recovery) to recycle end-of-life LIBs, delivering recycling processes to reach highly efficient recovery of materials. FREE4LIB also will deliver strategies and solutions to reintroduce the recovered materials (electrodes, metals, and polymers) on the same value chain as secondary raw materials for re-manufacturing greener batteries and will study options to harness non-reusable elements in other fields. In addition, FREE4LIB will deliver a methodology based on the Battery Passport principles to improve battery traceability.

Classification & Salary

- Salary scheme of the University Collective Agreement (“Universitäten-KV”): B1 (minimum salary 2.294€ per month, paid 14 times a year (for 30 hours/week))

Application procedure

If you are interested in this position, please submit your application documents (motivation letter, CV, certificates,...) before the application deadline to: rupert.baumgartner@uni-graz.at.

Please combine all documents in a single pdf-file.

For further questions please contact Prof. Dr. Rupert Baumgartner (Institute of Systems Sciences, Innovation and Sustainability Research) via email or at +43 316 380 3237.

Application Deadline: **June 30th 2022**