

Christian-Doppler Laboratory for Sustainable Product Management in a Circular Economy at the University of Graz is looking for a

## Project employee without doctorate

(40 hours a week, temporary employment for 3 years,  
position to be filled as of December 2022 / January 2023)

### Your tasks

- Participation in the research the Christian-Doppler (CD) Laboratory for Sustainable Product Management in a Circular Economy and the Know-Center GmbH
- More specifically, the research of the PhD candidate will involve:
  - exploring possibilities to utilize probabilistic machine learning to protect private/confidential data in digital product passports (DPPs) and life cycle assessments
  - covering approaches such as statistical privacy, fairness, representation learning, and model sharing (as opposed to data sharing) to ensure privacy and confidentiality and thus complement the existing literature on cryptographic approaches such as multi-party computation and homomorphic encryption
  - specialization in sustainability management and assessment
  - use case development for DPPs
- Conducting a dissertation in the context of the research of the CD Laboratory and the Know-Center
  - and the research group of Prof. Baumgartner ([circular.uni-graz.at](https://www.know-center.at/en/)) and related projects
  - with strong collaboration with the research group of Prof. Stefanie Lindstaedt (<https://www.know-center.at/en/>)
- 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 informatics (e.g., business informatics, computer science, computer engineering, data science etc.) or computational social systems with proficiency or high interest in sustainability management and assessment
  - in sustainability sciences (e.g., environmental systems sciences, sustainable development, industrial ecology, circular economy) or social sciences (e.g., business administration, economics, ...) with a strong affinity for data science and machine learning
- High commitment and motivation for scientific work and the completion of a doctoral degree
- Proficiency in qualitative and/or quantitative research methods
- Programming skills (e.g., 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

## Your benefits

- Cutting-edge projects in cooperation with national and international key players
- Close collaboration and exchange opportunities with different research groups at the Institute of Systems Science, Innovation and Sustainability Research
- Versatile opportunities for professional and personal development
- Space and support in implementing own ideas
- Very good work-life balance (flexible working hours and home office)
- Working at the interface between business and science
- Dynamic, creative and multicultural team
- Informal working atmosphere and regular team events

## Classification & Salary

- Salary scheme of the University Collective Agreement (“Universitäten-KV”): B1 (minimum salary 3.058,60€ (for 40 hours/week)) & Annual special payments (Christmas and vacation payments) in the amount of two monthly salaries

## 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](mailto: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: **October 15<sup>th</sup> 2022**