

The Chair of Circular Economy and Sustainability Assessment at the TUM Campus Straubing for Biotechnology and Sustainability aims at contributing to the transition to sustainable industry and society through Bioeconomy (BE) and Circular Economy (CE) approaches. Thereby we focus on developing quantitative approaches to model, assess and optimize BE and CE systems. To support our team we are looking for a

## Research Associate (PhD student or PostDoc) (m/f/d)

### Key activities

In research you carry out interdisciplinary and application oriented research projects. You work especially on the life cycle sustainability analysis, the modelling of the transition of economic sectors towards a CE and / or the optimization of BE and CE systems. In doing so you apply and further develop methods from Life Cycle Sustainability Assessment, Material Flow Analysis, Input-Output Modelling and / or agent-based modelling. Focal areas of your work comprise the circular carbon economy, esp. technologies for chemical recycling and carbon dioxide removal, and / or AI in Sustainability Assessment. Moreover, you support the chair's teaching activities by preparing lecture and tutorial materials, holding tutorials, and advising students.

### Qualification

As a suitable candidate, you hold a very good PhD or master's degree in industrial engineering, process engineering, chemistry, computer science or similar disciplines. You think analytically, work solution orientated and voluntarily in international and interdisciplinary teams. You show creative thinking and commitment. Willingly, you bring your knowledge and abilities into the long-term development of the professorship. Ideally, you are already knowledgeable in the fields of life cycle assessment, simulation, mathematical optimization, and / or material flow analysis. Additionally, you are well versed in the English language.

### What we offer

We offer a full time position as academic staff with the opportunity to pursue a doctoral degree or postdoctoral qualification. The position is available immediately. The initial contract will be limited, extensions are intended. Part time employment is possible. Payment will be based on the Collective Agreement for the Civil Service of the Länder (TV-L) at E13 level. TUM strives to raise the proportion of women in its workforce and explicitly encourages applications from qualified women. Applications from disabled persons with essentially the same qualifications will be given preference.

### Application

If you are interested in working with us, please send your documents by email to [circulareconomy@cs.tum.de](mailto:circulareconomy@cs.tum.de). For more Information, please do not hesitate to contact Prof. Dr. Magnus Fröhling ([magnus.froehling@tum.de](mailto:magnus.froehling@tum.de)). The deadline for application is **01/31/2026**.

### Technical University of Munich (TUM)

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