

We are looking for

Scientific employee (m/f/d) with a degree Dipl.-Ing. (Univ.)/ M. Sc. in fluid mechanics, computational engineering, or related discipline.

Institute Overview

The Institute of Brewing and Beverage Technology is viewed and recognized as a world-renowned institute in brewing, beverage, and cereal technology. Therefore, it is our commitment to the industry and TU München students to remain scientific leaders in these fields. Our work's key activities are directed towards the continuous development, implementation, and delivery of pioneering, innovative, cutting-edge technologies in these fields.

Your Tasks:

- You take on process engineering tasks in the field of brewing and beverage technology
- Within the framework of upcoming research projects, you will develop and take on tasks of numerical simulation
- In this context, you will develop models for the process simulations, in particular, multi-phase simulation of bubbly flow
- Multi-physics coupling of thermodynamic and fluid dynamic
- Cooperation and support in teaching events
- Collaboration in third-party applications

Your Profile:

- You are enthusiastic about challenging tasks of numerical process modeling and simulation in the field of food science and biotechnology
- Willingness to object-oriented programming (C++), Programming skills in Python
- Solid knowledge of thermodynamic and Multi-phase flow
- Experience in the Lattice Boltzmann method
- Reliability, commitment, teamwork, flexibility
- Structured, goal-oriented, and able to work independently
- Good command of spoken and written English

This position is compensated in wages according to the German salary structure for public sector employees (TV-L). The initial salary is set to 50% and further increase is possible, subjected to the performance.

TU München commits to inclusive excellence by advancing equity and diversity in all aspects. As an equal opportunity employer, we seek to improve the gender quotas in academia. Therefore, we are particularly encouraging applications from qualified women who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. Individuals with disabilities will not be discriminated against on the basis of disability. Moreover, they will receive a preference for employment.

Application

Please send your application (when electronic, as **a single PDF file** to verwaltung@bgt.wzw.tum.de) and include the reference "Modeling_Multiphase" in the subject line. For full consideration, apply by **December 27, 2020**.

Technische Universität München

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