

The Chair of Materials Engineering of Additive Manufacturing is looking for a full-time

Postdoctoral Researcher in Sustainability-Driven Additive Manufacturing (m/f/d)

About

The Technical University of Munich (TUM) invites applications for a Postdoctoral Researcher position at the Chair of Materials Engineering of Additive Manufacturing (MAT). As a leading institution in research and education, TUM is dedicated to fostering innovation and excellence in various important fields, such as Additive Manufacturing (AM). The Chair of Materials Engineering of Additive Manufacturing is at the forefront of cutting-edge research in the application of AM technologies, and this open position further strengthens the knowledge at the intersection of Sustainability and AM.

Research Focus and Responsibilities

The selected candidate will join a dynamic research team primarily focusing on advancing sustainability through additive manufacturing, enabling clean tech. The research agenda is designed to explore novel avenues in materials engineering with a focus on metals, process optimisation, and system integration to promote sustainable practices and circularity within the realm of AM. The goal is to structure and advance the existing research activities at the chair, set up a research group, acquire additional research funding, actively collaborate in a highly interdisciplinary research field, align with relevant stakeholders, and integrate sustainable concepts into AM processes as well as design and implement experiments, analyse data, and publish research findings in reputable journals.

Qualifications

- A Ph.D. in Materials Science, Mechanical Engineering, or a related field.
- Strong expertise in additive manufacturing technologies and processes with a focus on metals.
- Background in materials characterisation and processing techniques.
- Background in sustainability and circular economy desirable.
- Proven track record of publishing in high-impact scientific journals.
- Excellent communication skills in German and English and the ability to work collaboratively in a research team.
- Capabilities to act as a mentor and the passion to establish a new research group.

We offer

- Exciting research and work environment in a technology field with extremely high potential
- Interesting and challenging research activities in close exchange with other experts
- Opportunity for professional and personal development
- Embedding in a dynamic, committed team with regular events
- Remuneration according to the collective agreement for the public service of the federal states (TV-L) in fixed-term full employment (100 % of the working time)
- Starting contract of up to two years of duration with the potential of extension

Application

We look forward to receiving your informative application documents (cover letter with personal motivation, tabular CV, publication list, relevant references and certificates). Please send them as a single file in PDF format by e-mail with the subject line **MAT-Circular** until at the latest **29.02.2024** to

application.mat@ed.tum.de

The Technical University of Munich will not assume any costs associated with your application or the performance of interviews. If you apply in writing, we request that you submit only copies of official documents, as we cannot return your materials after completion of the application process.

TUM and the Chair of Materials Engineering of Additive Manufacturing strive to raise the proportion of women in their workforce and explicitly encourage applications from qualified women. The position is suitable for disabled persons. Disabled applicants will be given preference in case of generally equivalent suitability, aptitude and professional performance.

As part of your application, you provide personal data to the Technical University of Munich (TUM). Please view our privacy policy on collecting and processing personal data in the course of the application process pursuant to Art. 13 of the General Data Protection Regulation of the European Union (GDPR) at <https://portal.my-tum.de/kompass/datenschutz/Bewerbung/>. By submitting your application, you confirm to have read and understood the data protection information provided by TUM.

Technische Universität München

TUM School of Engineering and Design
Chair of Materials Engineering of Additive Manufacturing
Univ.-Prof. Dr. Peter Mayr
Boltzmannstraße 15, 85748 Garching b. München

Tel. +49 89 289 55341
www.mae.ed.tum.de/mat
www.tum.de