



ADDITIVELY MANUFACTURED. METALLOGRAFICALLY DECODED.

Academic staff member (m/f/d) E10 part-time 30 % (11,85 hrs/week) in the field of PBF-LB/M and material characterization

To support our research in the field of laser-based additive manufacturing, we are looking for an academic staff member to start as soon as possible. The position is particularly suitable for master's students and graduates of materials engineering, materials science, or related fields.

The main focus of the activity is the metallographic preparation and examination of samples made of superduplex stainless steel, which were produced using 3D printing in the Laser Powder Bed Fusion of Metals (PBF-LB/M) process.

Your tasks:

- Metallographic preparation of additively manufactured samples
- Separating, embedding, grinding, polishing, and etching the samples
- Microscopic examination and documentation of the microstructure
- Support in the evaluation and interpretation of the results
- Structured documentation of the work performed
- Participation in current research projects in the field of additive manufacturing

Your qualifications:

- Completed Bachelor's degree or advanced Master's degree in Materials Engineering, Materials science, mechanical engineering, or a comparable field of study
- Interest in metallography, additive manufacturing, and metallic materials
- A meticulous, reliable and independent workstyle
- Experience in metallographic sample preparation
- Good German or English skills

What you can look forward to:

- Hands-on work in a current research field
- Insights into additive manufacturing and characterization of sophisticated metallic materials
- Comprehensive training in metallographic preparation
- Flexible working hours that can be combined with a Master's degree
- The opportunity to gain practical and scientific experience for a later thesis