

Laboratory internship/ study project

Mechanical testing of 3D printed period cellular structures for mechanical behavioural analysis

We are seeking 1-2 master students (for an UNPAID position) with a background in structures, material sciences and composite materials. It needs to be noted that the results obtained in this study can be used for your study project.

Responsibilities:

- Software:
 - Work with structural testing software in the lab to collect data
 - Prepare/write MATLAB/Python scripts to analyze the measured data
- Test Support
 - Support with test specimen preparation, installation, test monitoring
 - Extraction of data and graphs

Requirements:

- Bachelor's or Master's degree in Mechanical Engineering or a related field.
- Strong understanding of basic structural mechanics and material sciences
- Basic knowledge of measurement software operation
- Familiarity with MATLAB and python
- Excellent problem-solving and analytical skills.
- Strong communication and teamwork abilities.

➤ **Are you interested or do you know someone who likes this?**

Please send the below documents to mathiaki@b-tu.de:

- CV
- A short description (max. 600 words) explaining (1) your skill set relevant to the job (2) and a technical problem (ideally related to above description but not mandatory) you have worked in the past.

➤ **Further Questions?**

- Contact: Akilan Mathi, Raum 130, LG 3A

(21 January 2025)