Faculty of Civil Engineering

The Institute of Construction Materials is seeking to appoint a student as a **Student Assistant** (max. 19 hrs./week) starting **as soon as possible**. The position is limited until December 31, 2021 with the option for extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

**Tasks:** You will become a part of the newly established Laboratory of Digitalization in the frame of the Institute of Construction Materials and take on auxiliary scientific activities. In close collaboration with its team, you will support this in a wide range of applications in the field of digitalization of the 3D printing with concrete. The main focus will be on the Digital Twin project. The project is intended to extensively use the Big Data and IoT technologies in order to exercise comprehensive control over the printing process with concrete. In addition, you are involved in the development and testing the measuring instruments to monitor parameters of concrete in time.

**Requirements:**
- Student enrolled at a college/university in Physics, Material Science, Robotics, Mechanical Engineering, Electrical Engineering or similar.
- Good command of English.
- Primary experience with sensors and microcontrollers is highly appreciated.
- Primary experience or interest in extrusion-based 3D printing technologies.
- Primary experience or interest in data processing.
- German is an asset but not required for this position.

**We offer**
- Exciting insights into data-driven research with the focus on additive manufacturing with concrete.
- Topics for Theses (Bachelor, Master, Diploma).
- Flexible working hours in a nice, interdisciplinary team.

For further questions please contact Mr. Dmitrii Sokolov at dmitrii.sokolov@tu-dresden.de.

Applications from women are particularly welcome. The same applies to people with disabilities. Please send your application including a short cover letter and a CV, mentioning the current stage of your studies by **August 31, 2021** (stamped arrival date of the university central mail service applies) preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document with subject line “Job” to dmitrii.sokolov@tu-dresden.de or by mail to: **TU Dresden, Fakultät Bauingenieurwesen, Institut für Baustoffe, z. Hdn. Herrn Dmitrii Sokolov, Helmholtzstr. 10, 01069 Dresden.** Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis