



Research assistant in the field of **Construction Robotics**

OUR PROFILE

The Center Construction Robotics closes the digital chain in construction from planning to production to realisation. In an interdisciplinary team and consortium of international industry partners, we are working on machine automation, the use of robot-assisted construction processes, digital interfaces, additive manufacturing processes and intelligent construction site mapping.

The Reference Construction Site serves as a real laboratory where new construction processes and products, networked machines, the use of robots, software solutions as well as teaching, working and communication concepts are tested under real construction site conditions. The Reference Construction Site is the starting point for the development of a far-reaching network in the field of construction transformation and is connected to the 5G-Industry Campus Europe. The reference site serves as a test environment for the

various projects where a 5G network is being installed to test and develop the technology for construction use cases in dynamic and robust environments.

YOUR PROFILE

- A completed university degree (Master's or comparable) in automation technology or robotics or a comparable course of study.
- High level of motivation and ability to familiarise yourself with topics from other disciplines
- Good verbal and written communication skills in German and English
- Sound knowledge of control engineering and robotics or computer vision
- Practical experience with the implementation of control and planning algorithms for mechanical systems
- Experience with interface programming in ROS is desirable



- Practical experience in dealing with cloud providers such as Amazon Web Services (AWS) or Google Cloud (GCP) is advantageous

YOUR TASKS

- Acquisition, processing and management of industrial and research projects
- Setting up and carrying out real test scenarios on the Reference Construction site Campus Melaten
- Conception of an automation solution for problems and challenges from the construction site
- Development of designed solution through automation of construction machinery
- Ph.D. in construction robotics

OUR OFFER

The appointment is to take place as soon as possible until 01.03.2023 and is initially limited to 12 months. A further employment of at least 2 years is planned. The employment relationship is based on the grouping of the collective agreement for the public service of the Länder.

We also particularly want to promote the careers of women and welcome female applicants. Women will be given preference in cases of equal aptitude, ability and professional performance, provided that they are underrepresented in the organisational unit and that reasons relating to the person of a competitor do not prevail.

We attach importance to equal opportunities and welcome applications from people with disabilities.

QUESTIONS AND APPLICATIONS UNTIL 28.02.2023

Construction Robotics GmbH

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