The Department of Civil and Environmental Engineering, Remote Sensing and Image Analysis Group at Technische Universität Darmstadt is inviting applications for a

**Research Assistant – Pointcloud processing with Deep-Learning**

to work on the research project „DeepForest: Development of machine learning methods for estimating the lower layers of forest vegetation from laser point clouds of airborne sensors“, which is funded by the LOEWE - Landesoffensive zur Entwicklung Wissenschaftlichökonomischer Exzellenz, Förderlinie 5: Exploration. The employment is limited from October 2021 until July 2023.

The successful applicant holds a diploma or master degree in engineering or natural sciences, e.g. geodesy, electrical engineering, computer science, physics or similar, as well as programming skills. Ideally, they have in-depth knowledge in remote sensing, in particular at least in one of the topics:

- Processing of LiDAR pointclouds
- Coregistration of pointclouds
- Remote Sensing based vegetation modelling
- Machine Learning / Deep Learning with remote sensing data
- Fusion of multimodal remote sensing data

Opportunity for further qualification (doctoral dissertation) is given. The fulfillment of the duties likewise enables the scientific qualifications of the candidate.

The Technische Universität Darmstadt intends to increase the number of female employees and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference. Wages and salaries are according to the collective agreements on salary scales, which apply to the Technische Universität Darmstadt (TV-TU Darmstadt). Part-time employment is generally possible.

By submitting your application, you agree that your data may be stored and processed for the purpose of filling the vacancy. You can find our privacy policy on our webpage.

Applications with the common documents (CV, certifications) and reference number must be sent to Prof. Dr.-Ing. Dorota Iwaszczuk, Department of Civil and Environmental Engineering Sciences, Franziska-Braun-Str. 7, Postfach 10 06 36, 64206 Darmstadt, Germany, e-mail: dorota.iwaszczuk@tu-darmstadt.de.

**Code No. 416**

**Published on: August 17, 2021**

**Application deadline: August 24, 2021**