Leibniz Universität Hannover

The Leibniz Universität Hannover has openings for

9 Doctoral Researchers (Salary Scale 13 TV-L) in Navigation, Robotics, Computer Vision, Geoinformatics

to join the Research Training Group (RTG) "**Integrity and Collaboration in Dynamic Sensor Networks**" funded by the German Research Foundation (DFG). The positions are available from December 1st, 2016 for a duration of three years.

The RTG is dedicated to investigating techniques that can ensure the error-free operation of technology in the context of the ever-increasing interactions between humans and robots. Many tasks are better solved in collaboration of such systems rather than by each system separately. In the future, collaborative sensor networks that can guarantee integrity will be core components of automated or autonomous vehicles, but also of systems in the context of the fourth industrial revolution ("Industry 4.0"), in the construction industry and in service robotics. In particular, such groups of mobile and communicating sensors have to guarantee the integrity of their navigational information in order not to endanger their environment. A unique combination of experts at Leibniz Universität provides ideal conditions for the solution of the research problems to be tackled in the context of the RTG. PhD candidates will work on the methodological basis as well as on the implementation of concepts for integrity and collaboration for dynamic sensor networks in connection with digital maps.

We offer an attractive position in an interdisciplinary team working in a highly relevant topical field of research which provides excellent opportunities for further professional qualification. The structured supervision program is designed to allow for a graduation within three years.

We expect candidates with an outstanding M.Sc. degree in geodesy and geoinformatics, information technology, computer science, applied mathematics, robotics, or a related discipline. Furthermore, the ability for interdisciplinary and independent work as well as a very good command of the English language and a passion for learning German are required. Additional specific requirements are related to the topics of the individual PhD-projects.

Part-time employment can be arranged on request. As an equal opportunities employer, Leibniz Universität Hannover intends to promote women in the context of statutory requirements. For this reason suitably qualified women are specifically invited to apply. Equally qualified applicants with disabilities will be given preferential treatment.

Please send your application in German or English language in electronic form (PDF) until **August 22, 2016** to the following address: icsens@ife.uni-hannover.de. Applications have to include a CV, the full academic record (certificates, transcript of record of B.Sc. and M.Sc. or equivalent in English or German language), as well as a Research Statement (one page) indicating your specific interest in the RTG, highlighting your personal interest and strengths for a specific PhD topic, as well as initial research ideas concerning this topic. The supervisors of the Research Training Group will invite suitable candidates for an interview to be held on **September 13, 2016** in Hannover, Germany or via Skype.

Further details about the RTG, especially about the PhD topics and supervisors, can be found on the website of the RTG at www.icsens.uni-hannover.de.