

Research Assistant (PhD Position), Design and Development of a Sensitive Human-Like Robot Hand for Manipulation and Interaction with the Environment, Technical University of Munich School of Robotics and Machine Intelligence, Germany.

The Munich School of Robotics and Machine Intelligence at the Technical University of Munich is looking for outstanding applicants for PhD positions in Garmisch-Partenkirchen.

About us

Technical University of Munich (TUM) is one of Europe's top universities. It is committed to excellence in research and teaching, interdisciplinary education, and the active promotion of promising young scientists. The Munich School of Robotics and Machine Intelligence (MSRM) at the Technical University of Munich is an integrative research center in the field of machine intelligence. Its purpose is to address fundamental research in robotics, perception and artificial intelligence to develop innovative and sustainable technological solutions for significant challenges of our time. To this end, MSRM will be one of the world's leading research institutes in robotics, machine learning and artificial intelligence. The first lighthouse initiative of the Munich School of Robotics and Machine Intelligence on the topic of "Geriatrics - Assistant Robotics for Self-Determined Living in Old Age" was launched in 2018. At an early stage, the project is carried out by a group of young and motivated scientists who evaluate their research results in close connection with local senior citizens and healthcare institutions. The aim is to enable the self-determination and independence of seniors in old age.

What we offer?

We offer a diverse work environment with personal responsibility and creative freedom. An extensive experimental infrastructure for the development of new ideas is available. We support close interaction with national and international scientists to make a highly dynamic working environment. The positions are initially limited to two years and are remunerated according to level E13 (100%). Our Geriatrics research center is located in the heart of Garmisch-Partenkirchen, which has been world-widely renowned for its impressive mountains and sport-related events and competitions. Garmisch-Partenkirchen is located at the foot of the Alps, approximately 90km south of Munich (1h by car, 1.5h by train) and is easily reachable from Munich. The Garmisch-Partenkirchen region provides a unique research platform with an excellent network of local clinics, doctors and nursing facilities.

Tasks

Design and development of a sensitive human-like robot hand for manipulation and interaction with the environment with focus on the following areas:

- Mechanical design
- Modelling, structure analysis and kinematic simulation
- Design, selection and integration of components into mechatronic systems
- Software design

Requirement

Applicants should have a master's degree or the equivalent in electrical engineering, computer science, mechanical engineering, biomechanics or related fields.

Application

Please send us your complete application documents (CV, certificates, cover letter) via email to: applications@msrm.tum.de quoting “Geriatrics - Application” in the e-mail subject line by 31.05.2019 at the latest.

TUM has been pursuing the strategic goal of substantially increasing the diversity of its staff. As an equal opportunity and affirmative action employer, TUM explicitly encourages nominations of and applications from women as well as from all others who would bring additional diversity dimensions to the university’s research and teaching strategies. Preference will be given to disabled candidates with equal qualifications. International candidates are highly encouraged to apply.

Data Protection Information:

When you apply for a position with the Technical University of Munich (TUM), you are submitting personal information. With regard to personal information, please take note of the [Datenschutzhinweise gemäß Art. 13 Datenschutz-Grundverordnung \(DSGVO\) zur Erhebung und Verarbeitung von personenbezogenen Daten im Rahmen Ihrer Bewerbung.](#) (data protection information on collecting and processing personal data contained in your application in accordance with Art. 13 of the General Data Protection Regulation (GDPR)). By submitting your application, you confirm that you have acknowledged the above data protection information of TUM.

Kontakt: applications@msrm.tum.de