

Job vacancy

We are seeking a temporary position for the wbk - Institute of Production Technology in the area of production systems in salary group E 13, TV-L at the earliest possible date

Research Associate (w/m/d)

in the field of

Quality assurance in human robot collaboration



HMC still stays behind its expectations in industrial application scenarios, especially for small and medium sized enterprises (SMEs). System integration is still too costly and labor-intensive. HMC systems currently lack of systematical quality control methods of collaboration process for flexible production systems. Therefore, a closed-loop quality control mechanism for HMC systems shall be developed and evaluated jointly with industrial partners.

This Sino-German program is designed for training you to an independent thinker in the industrial context. We cultivate technical expertise together with soft skills. From day one, you are working on a Sino-German project in the field of AI-enabled human-machine collaboration (HMC). The position provides opportunities to apply your skillset in industry consulting projects, together with experienced international colleagues. This position involves regular alternating six-month stays at our branch office in Suzhou and in Karlsruhe.



Tasks (Excepts)

- Data-driven and AI-enabled quality control for HMC systems
 - AutomationML based human-machine collaboration quality model
 - Systematic identification of critical quality factors in HMC
- AI-based dynamic test bed and evaluation of service supporting technologies
 - Setting up an AI-based test bed
 - Development of assessment indices and testing methods for rating flexibility

Requirements

- Engineering degree with very good results
- Outstanding commitment, high level of initiative and creativity
- High level of teamwork and communication skills as well as assertiveness
- Independent and structured way of working

The practical relevance of the work is ensured through a wide range of industrial contacts. As part of your work at the Institute, you will have the opportunity to do a doctorate and to spend several weeks abroad, e.g. in the USA and the People's Republic of China. We support your professional and personal development through excellent promotion measures. KIT attaches great importance to the professional equality of women and men. We are therefore particularly pleased to receive applications from women. Severely disabled applicants will be given preferential consideration if they are suitable.

For further information on this position, please contact Florian Stamer, e-mail: florian.stamer@kit.edu. Please send your application documents to bewerbung@wbk.kit.edu and florian.stamer@kit.edu .