Karlsruhe Institute of Technology

We are looking for the IPEK - Institute of Product Engineering (IPEK), at the earliest possible date, with a time-limited contract (doctoral period approx. 5 years) a

Academic assistant / PhD student (f/m/d): Data-driven investigation of design processes.

and offer a full-time position on the basis of TVL, remuneration group E 13.

In your research, you deal with the data-driven investigation of design processes. This type of investigation extends previous investigations, which were mostly retrospective and limited to a small number of test subjects, as the amount of data that is now possible and the increased reproducibility make it possible to draw much more reliable conclusions. The focus is on minimally invasive research into testing activities, for example using algorithms in which data flows from CAD, production and testing are merged.
To this end, the diverse possibilities of rapid prototyping at the IPEK are used and studies are carried out in the new Learning and Application Center (LAZ), which is still under construction. The LAZ maps process chains from the initial idea to the finished product and, thanks to its digital interfaces and production options, enables comprehensive longitudinal and cross-sectional studies through semester-long project work or experiments with up to 1000 participants.

Your tasks

- Independent management and collaboration in industry and publicly funded research projects
- Research into design processes
- Contribution to the implementation of courses desirable

The final goal of your scientific activities in our team is your doctorate.

You hold an above-average university or university of applied sciences degree (Dipl.-Ing. or Master) in the field of mechanical engineering/mechatronics. You have a profound knowledge of both written and spoken English and German and are an excellent team player with an independent, systematic and committed way of working. You also have a good capacity for abstraction, a high willingness to learn beyond the limits of your specialist training and a methodical approach. You have an interest in modeling, design methods and product development methods.

We offer you an attractive and modern workplace and access to the excellent facilities of the KIT, a varied and responsible job as well as a wide range of further training opportunities, a supplementary pension according to VBL, flexible working time models, a subsidy for the JobTicket (BW) and a canteen.

We aim to fill the positions as evenly as possible with employees (m/f/d) and would therefore be particularly pleased to receive applications from women.

If appropriately qualified, severely disabled persons will be given preferential consideration.

Please send your application documents to Mr. Markus Döllken. Specialized information is also available by telephone:

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Further information can be found on the Internet: https://www.kit.edu/english/index.php.