

Innovation through Science

The Honda Research Institute Europe is working at the cutting edge of scientific research towards artificial intelligence, robotics, and intelligent systems. Our vision is a society in which humans and intelligent cyber-physical systems raise and support each other in accord with nature.

We are looking for a highly motivated and talented researcher m/f sharing our spirit of turning pioneering scientific research into groundbreaking innovations. If you want to contribute your ideas for making this a reality join us at our institute at **Offenbach am Main, Germany**.

Research Scientist Artificial Intelligence for Engineering

The engineering design process heavily relies on various numerical tools which support the human engineer in the simulation of a generated system or in the decision making process. Still current computational tools offer only weak support in early and conceptually oriented design phases driven by human abilities such as creativity, for the development of new ideas and solutions.

Artificial intelligence techniques can support the engineer by proposing novel combinations of familiar ideas and concepts, performing active exploration of design spaces and by employing transformations in order to open up new concepts. Using AI methods and evolutionary computation we want to facilitate the search for innovative solutions for technical problems in a *cooperative* engineering system.

Your responsibilities

- Scientific research and technological contributions in the field of evolutionary search, active learning or transfer learning
- Modelling the interaction between machine and human design engineer to realize an efficient and target-oriented communication
- Implementation and test of algorithms in the area of process and structure optimisation
- Publication and presentation of research results in top ranking conferences and journals
- Cooperation with leading universities and industrial research partners

Your profile

- PhD or an excellent Master of Science degree and experience in a related field
- PhDs should have a proven track record of excellent research and the ability to define a research agenda contributing to our vision
- Applicants holding a Master's degree have the possibility to pursue a PhD in cooperation with academic partner institutions
- Experience or strong interest in systems engineering and evolutionary computation
- Profound programming skills in one of the following languages: C, C++, Python

We look forward to hearing from you.

Please submit your application, your earliest starting date as well as your salary expectations online at:

honda.pme-net.de

or send your application to

PME – Personal- und Managemententwicklung · Horst Mangold
Postfach 1334 · 55206 Ingelheim / Germany

Do you need more information? Mr Mangold will be happy to answer any questions you may have at the following number: +49 (0) 61 32 / 899 040.

www.honda-ri.de

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