Max Planck Institute for Intelligent Systems, Location Tübingen

Scientific Programmer for Central Scientific Facility: The Software Workshop

Our Institute

Join us at the Max Planck Institute for Intelligent Systems in Tübingen, Germany, a leading center for research in computer vision, robotics, and machine learning. Our research seeks to understand mathematical principles of intelligent systems. This involves not only analyzing and modeling, but also building such systems.

We are not content to generate new ideas – we want our ideas to have an impact and be widely used. The Software Workshop is a unique facility that brings together scientists and software engineers to translate basic research into software artifacts that can change the world.

Tübingen is a vibrant university town, with a high quality of life, in an area of outstanding natural beauty in the Southwest of Germany, within easy reach of an international airport.

Your Role

You will work with researchers across the Institute to translate research code into maintainable, deployable, and robust software systems. These systems may be used internally, made available as open-source projects to the research community, or even licensed for commercial use.

The software systems you develop will enable scientists of Intelligent Systems to build larger and more complex systems based on the research of the Institute and our collaborators around the world.

You will work closely with researchers and get involved in research projects. Prior experience in machine learning, robotics or computer vision is appreciated. A strong background in scientific programming, optimization and knowledge transfer is important.

Your work will have an impact. Through open-source libraries, web applications, and software infrastructure you will enable a new science of Intelligent Systems and help promote this worldwide.

This is a unique position combining software engineering with basic research on intelligent systems. As part of the Software Workshop, you will be deeply involved in some of world’s most exciting research on intelligent systems.

Our resources are world class. From our software infrastructure to our robots, scanners, camera systems, and laboratories, you will be working with the best resources available.

Responsibilities could include:

- Professional software design, coding, testing, documentation and maintenance of software libraries created and needed by the departments
- Dissemination of good software practices to the institute
- Translation of research code into production code, including development of low-level libraries for scientific and high-performance computing
- Integration of different software systems, including external systems
- Development and support of research web applications, including support for experiments using service platforms such as Mechanical Turk
- Development of interfaces for interaction and visualization of scientific data and algorithms on the web

Desirable skills
- Strong background in software engineering (2 years or more experience); e.g. professional software development in a team and/or open source experience.
- Experience programming in C/C++, Python, Matlab and other languages, coding standards
- Experience with scientific software, such as optimization, statistical modeling, control and visualization. Parallel and GPU programming would be appreciated.
- Good mathematical knowledge in areas like linear algebra, calculus, probability, numerical analysis, etc.
- Good team playing skills
- Good written/spoken English and communication skills. German is not required.

Our offer
Salaries and contract will be based on previous experience according to TVöD guidelines. This is a full-time position. An initial contract will be offered for two years, but subsequent tenure is possible.

The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. Furthermore, the Max Planck Society seeks to increase the number of women in areas where they are underrepresented and therefore explicitly encourages women to apply.

Your application
Candidates should send their PDF application, quoting the reference number 22.15. in English, including CV and list of references via e-mail to: personal@vw.mpi-stuttgart.mpg.de

For more information or questions about scientific and technical aspects of the position please contact Raffi Enficiaud raffi.enficiaud@tuebingen.mpg.de. For other questions please contact Sabrina Jung at sabrina.jung@tuebingen.mpg.de.

More information about the Tübingen site of our Institute can be found on http://www.is.tuebingen.mpg.de/.

Multiple positions are available and will be open until filled or no longer needed. Preference will be given to applications received by June 30, 2015.

If you prefer to send a hardcopy application, you may do so. Please address it to:
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Gemeinsame Verwaltung
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personal@vw.mpi-stuttgart.mpg.de