



The **Leibniz Institute for Astrophysics Potsdam (AIP)** is a publicly funded German research institute with a long history, including the Berlin Observatory and the Astrophysical Observatory Potsdam. The latter was the world's first observatory to emphasize explicitly the research area of astrophysics. Today, the AIP has an international reputation as a competence centre for the development of research technology in the fields of spectroscopy, robotic telescopes and E-Science. About 130 scientists work on a variety of astrophysical topics such as magnetic fields, solar and stellar physics, stellar and galactic evolution and cosmology. As a member of staff of the AIP, you will have the advantage of living very close to the Berlin metropolitan area as well as enjoying the calm, family-friendly area of Potsdam-Babelsberg for your work place and residence.

The Leibniz Institute for Astrophysics Potsdam (AIP) invites applications for the position of

Head of the Section “Supercomputing and E-Science” (tenure-track)

The section “Supercomputing and E-Science” pursues data-driven research and development, data management, supercomputing and visualization. Research and development in this section focuses on the topic big data and machine learning. The data management capabilities of Supercomputing and E-Science support the Institute's research branches “Cosmic Magnetic Fields” and “Extragalactic Astrophysics” in data publishing using also in-house developed data-base management tools. The section “Supercomputing and E-Science” develops the Scientific Computing architecture which is currently equipped with large cluster-based computing and data serving facilities. The AIP is directly involved in large space- and ground-based observatories, e.g., the Large Binocular Telescope, the integral field spectrograph MUSE on the VLT, the big distributed European Radio Telescope LOFAR, satellite observatories Gaia, Solar Orbiter, eRosita, and the future ESA mission Plato 2.0, the Hobby-Eberly Telescope Dark Energy Experiment, and the Sloan Digital Sky Survey. AIP coordinates the efforts to build the spectroscopic survey facility 4MOST for ESO's VISTA telescope and will be involved in HIRES and MOS for the E-ELT.

The appointee is responsible for leading and further developing a research section carrying out independent research and development programs in the broadly defined field of E-Science. Applicants should have made important, internationally recognized scientific contributions in the field of E-Science, in particular concerning the topics of big data and machine learning. The appointee is expected to develop and pursue an E-Science research and development vision and strategy aligned with the AIP strategy and to further develop the Scientific Computing Infrastructure. Collaboration with other scientists at the AIP is strongly encouraged. All candidates should have experience and potential to attract external funding for a creative, independent and broad-based research program.

Applicants must have a PhD in astronomy, physics, or computer science and a record of research in data-driven science. A background in astronomical research is desirable. Salary and benefits are commensurate with those of public service organizations in Germany (TV-L) and include employer contributions to medical and dental insurance, maternity leave, and retirement benefits. The appointment will be for an initial period of five years, with tenure based on a successful performance review. For exceptional candidates with commensurate qualifications a tenured appointment may be

considered. The AIP is an equal opportunity employer, values diversity, and particularly encourages women to apply.

To apply, please send a single PDF file containing a curriculum vitae, a presentation of your research plan, a curriculum vitae, copies of academic certificates and documents, a list of publications and a list of externally funded projects, and contact information for at least three references to escience2019@aip.de. Applications received before 15 February 2019 will receive full consideration.

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