



Leibniz-Institut für  
Astrophysik Potsdam



The Leibniz Institute for Astrophysics Potsdam (AIP) invites applications for a

## Postdoctoral position / Software Development

in the Dwarf Galaxies and the Galactic Halo research group.

The candidate will work within the Gaia Data Processing and Analysis Consortium (DPAC) and with Prof. Maria-Rosa Cioni on the software development and validation of Gaia data in crowded regions, e.g. in the Magellanic Clouds, Galactic star clusters, and the Bulge.

The goal of the project is to study and improve the Gaia performance in high density regions by processing, e.g., Service Interface Function (SIF) images, which allow to characterise objects two magnitude fainter than the natural detection limit. A small team is currently being assembled, within DPAC, to develop a crowded field pipeline to homogeneously treat the data and produce Gaia modules to be integrated in to the standard Gaia pipeline.

The candidate will be based at the AIP, an official DPAC institute already involved in software development for the Gaia Radial Velocity Spectrometer (CU6). The AIP is located in the beautiful Potsdam/Babelsberg area, at the southwest border of the Berlin metropolitan area. About 130 scientists work on a variety of astrophysical topics from solar physics to cosmology. The AIP is an equal opportunity employer that values diversity and specifically encourages applications from women. Preference will also be given to handicapped persons with equal competence.

Applicants should have a PhD in astronomy, astrophysics, or a closely related field. Previous experience with software development, preferably in Java, database queries (SQL), bug tracking (JIRA), and dependency management (IVY) will be an asset to the job.

The initial appointment will be for one year starting as soon as possible with a possible extension of two additional years subject to funding availability. The salary is based on the German public service TV-L scale. Employer contributions to medical and dental insurance, maternity leave, and retirement benefits are included.

To apply please send a Curriculum Vitae including a list of publications, a two-page statement on research/software experience, one-page on future plans, and three letters of reference to the e-mail address [bewerbung\\_2018-22@aip.de](mailto:bewerbung_2018-22@aip.de). Applications received by November 1<sup>st</sup> will receive full consideration, but the position remains open until filled.

Contact:

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