



Job Announcement

Young, modern, and research-oriented... the University of Potsdam has firmly established itself within the scientific landscape since its founding in 1991. Nationally and internationally renowned scientists teach and perform research here at Brandenburg's largest university. The University of Potsdam is successful in acquiring third-party funds, delivers outstanding performance in technology and knowledge transfer, and has a very service-oriented administration. With about 22,000 students studying at three campuses – Am Neuen Palais, Griebnitzsee and Golm – the University of Potsdam is a prominent economic factor and engine of development for the region. The University of Potsdam has a total of over 3,000 faculty and staff members and is located in one of Germany's most scenic areas.

The University of Potsdam, Faculty of Science, Institute of Physics and Astronomy, Theoretical Astroparticle Physics invites applications for the following position:

Academic Staff Member PhD student Requisition No.: 417/2020

The position will be associated with a project involving massively parallel simulations of electron acceleration at cosmic shocks that is funded by DFG.

The remuneration is determined by the collective bargaining agreement for public employees in Germany (TV-L 13). The position is for 27 hours per week (67% of a full-time contract). This is a position for a PhD student in theoretical astroparticle physics with an initial contract of three years in accordance with Section 2 subsection 1 of the Fixed-Term Employment Contracts in Science and Research Act (WissZeitVG). The position is (subject to) admission as a PhD student at the University of Potsdam.

The astroparticle theory group at the University of Potsdam is particularly interested in the physics of cosmic accelerators (such as supernova remnants), gamma-ray astronomy, and plasma physics. We offer excellent research opportunities in astroparticle physics through close cooperation with many research groups and major institutions in this field in Germany and abroad.

The Institute of Physics and Astronomy at the University of Potsdam supports a broad range of research in observational and theoretical astrophysics. It has close links with the neighboring Leibniz-Institute for Astrophysics (AIP) and Albert Einstein Institute in addition to DESY (Deutsches Elektronen-Synchrotron), which is one of the world's leading research centers for particle and astroparticle physics. The professor responsible for the astroparticle theory group, Prof. Martin Pohl, holds a joint position at University of Potsdam and DESY.

Requirements

We are particularly interested in applicants working in one of the following areas:

- Numerical modeling of astrophysical plasma
- Kinetic studies of wave-particle interactions
- Particle acceleration processes

Qualifications

- M.Sc. in physics, astronomy, or equivalent

- Experience with modeling of particle acceleration and wave-particle interactions
- Experience with numerical and analytical studies of plasma in space
- Good command of English

Under the laws of the federal state of Brandenburg, employees under this contract are permitted to dedicate at least 33% of their contract time to their own academic qualification.

The University of Potsdam aims to increase the proportion of women in research and teaching and therefore invites qualified female applicants to apply. The University of Potsdam values the diversity of its members and pursues the goals of equal opportunities regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, sexual orientation or identity. In the case of equal suitability, women within the meaning of Section 7 (4) BbgHG (Brandenburg Higher Education Act) and people with severe disabilities will be given preferential consideration. Applications from abroad and from persons with a migration background are expressly welcome.

Applicants should submit in electronic form a CV, a 2 to 3 page statement of current and future research interests, a list of publications, a link to the M.Sc. thesis, and the names and contact info of at least 2 references. Submissions arriving before January 15 2021 at ines.tietgen@uni-potsdam.de will receive the fullest attention. For further questions please contact Prof. Martin Pohl, marpohl@uni-potsdam.de.

Potsdam, December 4, 2020