



## Job Announcement

The University of Potsdam was founded in 1991 and has firmly established itself within the scientific landscape and developed into an outstanding economic factor and growth engine for the region. The University of Potsdam excels in acquiring third-party funds, has received multiple teaching awards, has a very service-oriented administration, and has been honored several times for its family-friendly culture. About 21,000 students and 3,000 employees study and work at three campuses – Am Neuen Palais, Griebnitzsee and Golm – at one of Germany's most scenic institutions of higher education.

The Faculty of Science/Institute of Physics and Astronomy, Chair Theoretical Astrophysics at the University of Potsdam invites applications for a postdoctoral position limited to 2 years, which will be should be filled as soon as possible (start date negotiable):

### Academic Staff Member ID no. 358/2024

The successful candidate will work 40 hours per week (100 %). The position is classified within remuneration group 13 of the collective wage agreement among the German states (TV-L). The fixed term of employment is in accordance with Section 2 subsection 1 of the German Act on Limited Scientific Contracts (*Wissenschaftszeitvertragsgesetz* or *WissZeitVG*).

#### Your Field of Work:

Your work is related to the NSF-DFG research project “*DFG-NSF Physics: Maximizing the science return of target of opportunity observations connected to compact binary mergers*” between the University of Minnesota-Twin Cities and the University. The positions are connected to the research groups of Prof. Michael Coughlin in Minnesota and Prof. Tim Dietrich in Potsdam. The research project will focus on the development of searches and low-latency data products for gravitational waves with the Laser Interferometer Gravitational Wave Observatory (LIGO). Specifically, we are seeking those interested in work participating in our analysis of gravitational-wave data in support of electromagnetic counterpart searches to study multi-messenger transient objects with low-latency pipelines.

#### The Scope of Your Responsibilities:

- Developing new routines and codes to provide low-latency data products relevant for electromagnetic follow-up studies of gravitational-wave triggers
- Implementation and updating the nuclear-physics and multi-messenger astrophysics framework NMMA that is developed within the Theoretical Astrophysics group at the University of Potsdam
- Employing multi-messenger methods to study electromagnetic counterparts connected to compact binary mergers.

#### Your Qualifications:

- We are looking for a candidate with a PhD in Computer Science, Statistics, Mathematics, Physics, or another applicable discipline related to the research outlined above
- The candidate must have programming knowledge (especially python), and, ideally also, experience in data science, machine learning, or statistics
- Strong written and verbal communication skills, collaboration skills, and the desire to learn new computing platforms are mandatory

### **What We Offer:**

As a university, we combine the developmental strength of a teaching and research institution with the attractive working conditions of the public sector. The University of Potsdam is a reliable employer that supports its employees with a variety of offers and benefits:

- Develop yourself and your professional as well as interdisciplinary competencies in various continuing education and networking opportunities offered by the University of Potsdam.
- All locations have good transport connections. They can receive a monthly subsidy for the public transport job ticket and use campus bicycles.
- Benefit from a company pension plan, a special annual payment and asset-building services.
- Take advantage of the diverse offers from occupational health management as well as university sports.
- To improve work-life balance, the University of Potsdam offers its employees flexible working hours and proportional home office hours. You have 30 vacation days per year and are also exempt from work on December 24 and 31. Our service for families can advise you on issues relating to the reconciliation of work and family life.

You can find more information about working at the University of Potsdam at <https://www.uni-potsdam.de/de/arbeiten-an-der-up/arbeitgeberin/uebersicht>

For further information regarding the position, please contact [theoastrophysics@uni-potsdam.de](mailto:theoastrophysics@uni-potsdam.de).

### **Your Application**

Please send us your application by November 01, 2024 via email to [theoastrophysics@uni-potsdam.de](mailto:theoastrophysics@uni-potsdam.de) with the subject line "Application ID. 358/2024". Your application (a single PDF) should contain a cover letter, your curriculum vitae, your list of publications, (up to 3-page) statement of past and future research activities. In addition, please arrange for at least two letters of reference that will also be sent to [theoastrophysics@uni-potsdam.de](mailto:theoastrophysics@uni-potsdam.de) stating your name in the subject line.

Applicants should indicate if their application should also be considered as an application for a postdoctoral position in Minnesota as part of the joint NSF-DFG grant.

The University of Potsdam values the diversity of its community and pursues the goals of equal opportunity regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, and sexual orientation and identity. Applications from abroad and from persons with an immigrant background are expressly encouraged. The university strives for a balanced gender ratio in all employment groups; in areas where women are underrepresented, women are given preference in case of equal suitability (Section 7 paragraph 4 of the Brandenburg Higher Education Act). People with disabilities are given preferential consideration in cases of equal qualifications. In aptitude tests and selection interviews, individual disadvantage compensations are granted that are appropriate to their disability. If a person with a disability would like to make use of individual disadvantage compensation, please state this in the application letter.

Potsdam, September 16, 2024