



**Technische Universität Berlin**



Technische Universität Berlin offers an open position:

**Research Assistant - 0.75 working time - salary grade E13 TV-L Berliner Hochschulen - DFG funded project to obtain a PhD**

**Faculty II - Center of Astronomy and Astrophysics**

**Reference number:** II-44/20 (starting at the earliest possible / for a period of 3 years aiming at a doctorate (qualification target) / closing date for applications 13/04/20)

**Working field:**

- Plasma-astrophysical numerical simulations to understand solar and pulsar radiosignals
- The work will be carried out in the framework of the GACR-DFG (Czech-German) research project: "Understanding modern radioastronomical observations via advanced plasma simulations" funded by the Deutsche Forschungsgemeinschaft (DFG)
- Kinetic plasma simulations of magnetic reconnection and electron acceleration causing solar and pulsar the radio emissions
- Close collaboration with the Observatory Ondrejov (Czech Republic) for large-scale MHD simulations and radio-observations by the LOFAR and ALMA telescopes
- PhD thesis preparation is possible

**Requirements:**

- Successfully completed university degree (Master, Diplom or equivalent) in physics, preferably in astrophysics and/or plasma physics
- Knowledge of programming languages (Python, C, Fortran ...)
- Language proficiency: good command of German and/or English (oral and written) required; willingness to learn either English or German is expected
- Astrophysical and plasma-physical knowledge
- Enthusiasm about learning and doing research in plasma astrophysics by means of computer simulations using codes, programs and diagnostic tools written in C and Python
- Ability to work in a team, the Center for Astronomy and Astrophysics, the SMART group of the TU Berlin, the international collaboration

Please send your written application with the **reference number** and the usual documents to **Technische Universität Berlin - Der Präsident - Fakultät II, Zentrum für Astronomie und Astrophysik, Prof. Dr. Büchner, Sekr. EW 8-1, Hardenbergstr. 36, 10623 Berlin** or by e-mail to [buechner@tu-berlin.de](mailto:buechner@tu-berlin.de).

**The application should contain:**

- a short statement of research interests and motivation
- a CV
- copies of university degrees (Bachelor, Master or equivalent)
- full transcripts of academic records (list of courses with credit and grades in English or German)
- an abstract of the Master thesis (in English or German)
- contact details (email addresses) for two letters of recommendation

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Please send copies only. Original documents will not be returned.

The vacancy is also available on the internet at <http://www.personalabteilung.tu-berlin.de/menue/jobs/>

