

Max-Planck-Institut für Plasmaphysik



The Max Planck Institute of Plasma Physics as an institute of the Max Planck Society for the Advancement of Science (registered association) is one of the leading centres for fusion research and is engaged in developing the physical foundations for a future fusion power plant. The institute is affiliated to the European Fusion Programme.

Postdoctoral Researcher (m/f/d)

Beam Physicist

City: Garching (near Munich); Starting date (earliest): At the earliest possible;
Duration: 31.12.2027; Remuneration: pay group 13 TVöD Bund; Reference
number: 25/021; Closing date: 01/07/25

Working field

The Max Planck Institute for Plasma Physics in Garching offers within the department ITER Technology & Diagnostics (ITED) a position for a Postdoctoral Researcher (m/f/d). As a member of the Neutral Beam Injection (NBI) team at Max-Planck Institute for Plasma Physics (IPP) Garching, the candidate will contribute to the test facilities BATMAN Upgrade and ELISE that are an essential part of the European step ladder approach towards ITER NBI. He/she will be responsible for the beam diagnostics operated at both facilities. The work will be performed in Garching together with the IPP-NBI team. Strong collaboration with the NBTF team and related experiments is requested.

Your tasks:

- Responsible for operation of the beam diagnostics at the test facilities
- Analyze the experimental data with support of simulations
- Present the results in meetings, conferences and reports
- Active contribution to the experimental program to obtain beam properties
- Strong collaboration with NBTF and other partner institutes

Requirements

- PhD degree in Physics or equivalent fields
- Experimental experience and modelling capabilities
- Knowledge of ion beam physics is an advantage
- Experience in beam diagnostics is an advantage

Your abilities:

- Very good knowledge of plasma and beam physics
- Operation and interpretation of diagnostic methods
- Good knowledge of data acquisition systems, data evaluation and visualization;
- High competence in team working and very good communication skills

What we offer

- An interesting job at one of the largest research institutes for fusion research
- Flexible working hours
- Training and further education opportunities
- Family service of the Max-Planck-Gesellschaft
- Further social benefits (e.g. company pension scheme, capital-forming benefits, discounted public transport tickets)

The position will be based in Garching, Germany and is supported by EUROfusion. The position is open at any time and limited until 31st December 2027; the latter is however, subject to funding availability and extension of the EUROfusion Grant Agreement in 2026-27. The selected candidate has to be approved by EUROfusion in a second application process. The salary is based on the assignment of tasks and qualifications and goes up to pay group 13 according to the collective agreement for the public sector (TVöD Bund).

Application

The IPP seeks to increase the proportion of employed women in those areas where they are underrepresented and explicitly encourages women to apply for this position. The IPP is committed to employing more disabled individuals and especially encourages them to apply. We are looking for your online application.

More information at <https://stellenticket.de/195089/TUBS/>
Offer visible until 01/07/25

