Postdoctoral Experimental Physicist for Diagnostics of Large Negative Ion Beams

The ITER Technology & Diagnostics (ITED) group of the Max-Planck-Institut für Plasmaphysik (IPP), Munich, Germany, is looking for a Postdoctoral Experimental Physicist for Diagnostics of Large Negative Ion Beams. This position will be until 31st December 2024.

The main responsibilities of the role will be to operate, maintain, and interpret beam diagnostics at the negative ion beam test facilities BATMAN Upgrade and ELISE. These are negative ion sources using an RF driven low temperature plasma to create a large beam of negative ions, up to $1 \text{ m} \times 1 \text{ m}$ in cross-section. The goals of this project are to improve understanding of negative ion beam formation and transport, as well as further development of the beam diagnostics themselves, including IR-thermography of a CFC calorimeter and beam emission spectroscopy. You will also be expected to work with international experts in the field in both ongoing and future collaborations.

Candidates should have:

- 1. Completed studies and a doctorate in physics or equivalent fields
- 2. Solid knowledge of data acquisition systems, data evaluation and visualization
- 3. Experience in the operation of ion sources and beams is an advantage
- 4. Good knowledge of IR-thermography, calorimetry, or emission spectroscopy is an advantage

As a candidate you must be able to:

- 1. Fluently present complex scientific and technical matters in English
- 2. Show good organizational, interpersonal and communication skills
- 3. Work in a scientific environment as part of a team
- 4. Work in and collaborate with international teams

For more information, or to apply, please visit the <u>IPP Careers Portal</u>. For any questions, please contact:

Prof. Ursel Fantz ursel.fantz@ipp.mpg.de