Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Braunschweig, 16 February 2010

Aushang bis: 30. März 2010

V A C A N C Y **N o . 1 1 / 1 0 - 6**

The Physikalisch-Technische Bundesanstalt (PTB) is the National Metrology Institute of the Federal Republic of Germany with scientific and technical service tasks. It furthers progress and reliability in metrology for society, economy and science.

Department 6.5 "Neutron Radiation" in Braunschweig is doing research and development work in the field of neutron metrology on fusion plasmas in cooperation with partners from the field of fusion research, e.g. with the Max-Planck-Institut für Plasmaphysik (IPP; Garching and Greifswald) and other European institutes involved in the Joint European Torus (JET, Culham, UK). For the realisation of projects for the development of neutron spectrometers for plasma diagnostics, we are looking for an

experimental physicist (if possible with a doctor's degree)

to join us as soon as possible. The post is limited to 3 years. A continuation of employment in a future third-party fund-raising project is possible. Depending on the qualifications, the tasks are in compliance with the characteristics up to Salary Group Ib BAT, the remuneration will be paid according to the regulations of the TVöD.

Tasks:
The precise knowledge of the physical processes in fusion plasmas is an essential basis for energy production by means of nuclear fusion. For this purpose, we develop diagnostic procedures - in close cooperation with plasma physicists - which exploit the neutron radiation emitted from the plasma. The measuring conditions at the fusion research facilities and at a future fusion reactor (e.g. ITER) place extremely heavy demands on measuring techniques.

Your task will be to further develop existing neutron spectrometers on the basis of scintillation detectors and the investigation of new methods which are suitable for a later application at ITER. You will work in a committed team of experts and be able to use our excellent infrastructure, e.g. reference radiation fields, numerical procedures, electronic and mechanical development.

Requirements:
We assume completed university studies of physics, if possible with a doctor's degree in experimental physics, and we expect a good command of English. Knowledge and experience in the field of nuclear physics metrology (radiation detectors and associated electronics, data acquisition) and in the field of application of radiation transport programs are of great advantage.

For further information, please contact Dr Helmut Schuhmacher, tel.: +49 531 592-6500, e-mail: helmut.schuhmacher@ptb.de.

Z.12-706 03 e

For technical questions, please contact Dr Andreas Zimbal,
tel.: +49 531 592-6540, e-mail: andreas.zimbal@ptb.de.

The PTB promotes the professional equality of women and men and is thus especially interested in applications from women.

Within the scope of the official feasibilities, PTB offers flexible part-time work schemes in order to support in particular the compatibility of family and profession. For further information see our flyer "Familienfreundliche PTB" (Compatibility of family and profession at PTB) at www.ptb.de/Jobs/Ausbildung.

Disabled persons will be given priority if they have the same occupational aptitude.

Are you interested? Then we are looking forward to hearing from you. Please send your detailed application to the address below by **30 March 2010**, quoting the **reference number 11/10-6**:

Physikalisch-Technische Bundesanstalt
- Personalreferat -
Bundesallee 100
D-38116 Braunschweig

or e-mail: Bewerbung@ptb.de

For further information on the tasks and structure of PTB, please visit www.ptb.de.