

Braunschweig, 2. November 2020

## STELLENAUSSCHREIBUNG Nr. 20-378-6

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, the economy and science.

Department 6.4, Neutron Radiation, of Division 6, is looking for an

### **experimental physicist with a doctorate**

starting on 1 March 2021.

This position will initially be available on the basis of an 18-month fixed-term contract. After demonstrating your abilities for the job, it is planned that the position will become permanent. The place of employment is Braunschweig.

The remuneration can reach up to remuneration group 14 TVöD Bund depending on your qualifications.

#### **Your tasks:**

- Research and development activities in the field of neutron metrology and neutron spectrometry involving tasks such as further developing primary and secondary measurement methods at the monoenergetic neutron reference fields
- Carrying out research projects and acquiring new projects involving third-party funding within the scope of the department's research focus. Current activities include projects on the determination of reference cross sections and on metrology of high-energy neutrons (> 20 MeV). These projects are carried out in collaboration with international partners at CERN and in South Africa.
- Representing the department at the international level, intensifying and developing the department's research cooperation projects
- Providing services for external customers in the fields of neutron metrology and neutron dosimetry
- Mentoring postdocs, doctoral candidates, guest researchers, and students
- Responsibilities in the field of radiation protection, eventually taking over the tasks of the radiation protection officer of the ion accelerator facility in a few years

#### **Your profile:**

- You have successfully completed your university studies of physics, with a focus on nuclear physics, and have obtained a doctorate degree with very good success.
- Proof of independent scientific work through publications as first author
- You have extensive knowledge and experience in several of the following fields: nuclear physics, nuclear data, neutron physics, metrology and data acquisition systems in nuclear physics, Monte Carlo simulations, programming skills, data analysis methods and

deconvolution procedures, dosimetry of ionizing radiation, accelerator technology, as proven by means of publications, testimonials or comparable documents.

- You have experience in working in international research groups and experiments at large nuclear research institutions as well as in raising third-party funds and in implementing third-party projects.
- You are a team player with excellent communication skills.
- You are willing to do tasks as a radiation worker in controlled areas.
- You are willing to travel within Germany and abroad within the scope of your assignment.
- You have an independent and well-structured working style, good organization skills, and enjoy experimental work.
- You have an excellent command of both spoken and written German and English.
- You are able to motivate scientific and technical staff, and you have a cooperative approach to management. You will demonstrate these abilities within the scope of an assessment center.

The department's ion accelerators are operated in shifts, usually from 7 am until 10 pm. As the experimental manager, you have to be present approx. 10 % of your working time in the late or the night shift.

For further information with regard to this position, please contact:

Dr. A Zimbal, phone: +49 531 592-6400, e-mail: [andreas.zimbal@ptb.de](mailto:andreas.zimbal@ptb.de) or

Dr. R. Nolte, phone: +49 531 592-6420, e-mail: [ralf.nolte@ptb.de](mailto:ralf.nolte@ptb.de)

[Click here to learn more about our department.](#)

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 work and family life.

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 application using our [online application form](#) or by post to:

Physikalisch-Technische Bundesanstalt

Referat "Personal"

**Reference number 20-378-6**

Bundesallee 100

38116 Braunschweig

Germany

Unfortunately, we cannot accept applications sent via e-mail.

The closing date for applications is **4 January 2021**.

