

Braunschweig, 20. August 2019

## **STELLENAUSSCHREIBUNG Nr. 19-112-6**

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 6.5 "Radiation Effects" of Division 6 is looking for a

**scientist with a doctor's degree  
in physics or in a comparable natural or engineering science**

This position is available on the basis of a 2-year fixed-term contract. You will be employed at our Braunschweig site.

Depending on your personal qualifications, the remuneration can reach up to remuneration group 14 TVöD Bund.

### **Your tasks:**

- Realization and model-based evaluation of numerical simulations in support of physical and radiobiological experiments (e.g.: nanodosimetry, measurement of stopping cross-sections, nanoparticles)
- Collaborating in the development of a road map for a Monte Carlo gold standard
- Cooperating in the projects of EURADOS Working Group 6 "Computational Dosimetry", especially relating to the uncertainty of simulation results
- Participating in the GEANT4-DNA collaboration for implementing measured cross section data
- Scientific publications and conference papers

### **Your profile:**

- You have completed university studies of physics or a comparable natural or engineering science (German "Diplom" or Master's) with a doctor's degree and you have obtained at least the "B" grade ("gut" in the German grading system).
- You have experience in the simulation of experiments and a good knowledge of GEANT4, of ROOT and of software that is suitable for the further analysis of the simulation results.
- Knowledge of further simulation programs and numerical mathematics would be of advantage.
- You have a good knowledge of the interaction of ionizing radiation with matter.
- You have excellent communication skills and are a team player.
- You are able to work independently and in a target-oriented and well-structured manner.

- You are willing to travel for business purposes and to work in a team in international cooperation projects.
- You have the willingness and the ability to elaborate manuscripts.
- You have experience in the publication of scientific results in journals and as conference papers.
- You have a good command of spoken and written English.

For further subject-related information, please contact  
Dr. H. Rabus, phone: +49 531 592-6500, e-mail: [hans.rabus@ptb.de](mailto:hans.rabus@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 use our **online application form** <http://www.ptb.de/cms/ueber-uns-karriere/karriere/bms-stellen.html> or send your application to the following postal address:

Physikalisch-Technische Bundesanstalt

Referat "Personal"

**Reference number 19-112-6**

Bundesallee 100

38116 Braunschweig

Germany

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

The closing date for applications is **11 September 2019**.

