



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.

With a starting date as soon as possible, Division 8, Medical Physics and Metrological Information Technology, is looking for a candidate to fill the following position at PTB's Berlin-Charlottenburg site for a duration up to three years:

**Scientist with a doctorate (PhD)
specializing in physics, chemistry or biology**

up to Remuneration Group 14 [TVöD Bund](#) ◦ full-time (39 hours/week) ◦ fixed-term contract

Your tasks:

Our cooperation project aims to quantitatively characterize medically relevant macromolecular biomarkers in vitro by means of nuclear magnetic resonance on hyperpolarized xenon. The objective of this post is to develop and apply novel NMR measurement procedures. A xenon polarizer and a benchtop spectrometer are available for this purpose. The activities will be carried out in close collaboration with other members of PTB's staff as well as with partners from the University of Regensburg. Your tasks will consist in, among other things:

- Setting up and operating a measuring facility consisting of a xenon polarizer and a spectrometer
- Developing and implementing measurement procedures for use with hyperpolarized xenon
- Performing scientific investigations on model systems and medical samples
- Modeling and assessing data
- Presenting and publishing the results

Your profile:

- You have completed your university studies (German *Diplom* or Master's) and obtained a doctorate in natural sciences (Dr. rer. nat. or PhD) in one of the aforementioned fields.
- You have in-depth knowledge of NMR spectroscopy or imaging.
- Ideally, you are familiar with hyperpolarization in NMR.
- Practical experience with experimental setups and laboratory work as well as pulse sequence programming and data assessment would be an advantage.
- You are a team player with excellent communication skills.
- You have a good command of either German or English.

- You are willing to travel within Germany and abroad within the scope of your assignment.

Minimum requirements must be met with regard to physical aptitude to carry out measurements while standing.

We offer:

- A position at one of the world's leading research institutions which has an excellent infrastructure
- Excellent national and international connections
- Remuneration in accordance with the collective bargaining agreement for the public service (*Tarifvertrag öffentlicher Dienst Bund – TVöD* for the federal level) including special annual payments and capital forming benefits
- Public sector pension scheme (VBL)
- Compatibility of work and family life (flexible working hours and part-time schemes)
- 30 days' paid annual leave as well as two additional days off on 24 and 31 December
- Various workplace health and wellness options
- Very good transport connections (bus, train, tram, and bike); free parking

You will find further information related to this position [here](#) and by contacting:
Dr. L. Mitschang, phone: +49 30 3481-7632, e-mail: Lorenz.Mitschang@ptb.de

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.

Please use our [online application form](#). Alternatively, you can post your application to us at the following address:

Physikalisch-Technische Bundesanstalt
-Institut Berlin-

Reference number 21-13-8

Abbestraße 2-12

10587 Berlin

Germany

Unfortunately, we cannot accept applications sent via email.

Applications can be submitted from 23 April 2021 until 14 May 2021.



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