



The art of measurement — made in Germany. Striving to perfect it is the mission of the 2,200 employees of PTB, the Physikalisch-Technische Bundesanstalt. As Germany's national metrology institute and a leading center of research, we operate in an international environment to develop world-class measurement standards. We at PTB work to ensure that people and organizations can trust the measurements they use.

At our Braunschweig site, we are looking to fill the following position in Department 1.7 (Acoustics and Dynamics):

Scientist or doctoral candidate in electrical engineering, mechanical engineering, physics or acoustics

Remuneration Group 13 [TVöD Bund](#) ◦ Three-year fixed term ◦ Full-time

Doctoral candidates: Remuneration Group 13 [TVöD Bund](#) ◦ Three-year fixed term ◦ Part-time (33.15 hours/week)

Your tasks:

[Working Group 1.72 \(Applied Acoustics\)](#) deals with a range of tasks including research and development with regard to measuring parameters in building acoustics as well as the sound power level. As part of a project financed by the Federal Institute for Occupational Safety and Health (BAuA), a new measurement procedure for the sound power level is to be developed. Your tasks will include:

- Carrying out analytical and numerical parameter studies on elementary sources with regard to sound pressure scanning for determining the sound power
- Carrying out detailed investigations on near-field effects with different source configurations
- Experimentally verifying the findings using model machines
- Determining the measurement uncertainties, among other things via comparison measurements with the BAuA
- Presenting and publishing the research results

Your profile:

- You have completed your university studies (master's degree or German *Diplom*) in electrical engineering, mechanical engineering, physics or a comparable subject.
- You will ideally have knowledge of technical acoustics and acoustic metrology.
- You have the specialized skills and physical ability to perform experiments independently.
- You perform scientific work in an independent, well-structured and target-oriented manner.
- You are a strong team player and have good communication skills.
- You have a good command of English ([B2 level](#)). German language skills would be an advantage.
- You are willing to travel for work both in Germany and abroad.

We offer:

- **Support for your doctoral work:** You will carry out research as part of an internationally renowned team and will benefit from PTB's excellent infrastructure. At PTB, you will be able to concentrate on your doctoral work without having to give lectures. Our support program for doctoral candidates additionally gives you the opportunity to network with your peers at the national and international levels, for example at scientific conferences.
- **Work-life integration:** We offer flexible working arrangements and conditions (part time, flextime, work from home, telework, compensation days) to help you manage your family, care and career responsibilities in all of life's phases.
- **Transparent terms:** Remuneration in accordance with Germany's collective agreement for federal-level public service employees (TVöD Bund), 30 days of paid vacation and an employment-based pension plan for employees covered by the collective agreement are just some of the benefits of working at PTB.
- **Location benefits:** Our attractive campus offers an easy commute for drivers and cyclists as well as very good direct bus services. Plenty of free parking is available.
- **Jobticket:** We take environmental and climate protection seriously. To encourage commuting by public transportation, we offer a subsidy towards the cost of the Deutschlandticket Job.
- **Family friendly:** From daycare and dedicated parent-child offices to school holiday childcare, we offer a variety of ways to help you master the family-work balancing act.
- **Inclusion:** For people with disabilities, we offer an inclusive corporate culture and a range of integrative programs.
- **Learning opportunities:** We want to help you get ahead by offering a wide range of training and development programs to expand and enhance your skills.
- **Health options:** Your health is important to us, which is why we offer health promotion and maintenance programs, including workplace sports, a mobile massage service and back care classes.
- **Canteen:** Situated on our park-like campus grounds, our canteen offers a wide variety of culinary choices every day, including vegetarian/vegan options.

This is important to us:

PTB promotes gender equality and strongly encourages applications from female candidates. At the same time, we strive to reflect the diversity of our society. We therefore welcome every application submitted, regardless of the candidate's gender, cultural or social background, religion, ideology or sexual identity. If equally suited to the position, disabled persons or persons having equivalent status under German law will be given preference.

Your application:

For subject-related questions concerning this position, please contact [Department 1.7:](#) Dr.-Ing. Volker Wittstock, phone: +49 531 592-1549, email: volker.wittstock@ptb.de.

We look forward to receiving your [online application](#) by 13 May 2024 under Ref. No. 24-75-1B. Unfortunately, we cannot accept applications sent via email.

