

Vacancy Notice No. 22E/2017

A member of the Helmholtz Association of German Research Centers, the HZDR employs about 1,100 people. The Center's focus is on interdisciplinary research in the areas energy, health, and matter. All research is conducted in close collaboration with other members of the Helmholtz Association as well as with universities, non-university affiliated research institutes, and industry.



For additional information please visit: <https://www.hzdr.de>.

The Institute of Ion Beam Physics and Materials Research invites applications as

PhD Student (m/f).

The position will be available from 1 August 2017. The employment contract is limited to three years. The regular weekly working time will be 19,5 hours. The salary is based on the collective agreement TVöD-Bund. The place of work is Dresden-Rossendorf.

Requirements:

- Master or equivalent degree in physics, material sciences or a related subject with very good marks
- good prior knowledge in semiconductor physics, semiconductor preparation techniques and physical data analysis
- good team-working ability
- good to very good knowledge of the English language

Tasks:

- preparation and space-resolved modification of horizontally arranged Ge-Nanowires by electron beam lithography, ion implantation and flash lamp annealing
- investigation of fundamental physical processes in confined regions of these nanowires like crystallization, dopant diffusion, dopant activation and alloy formation
- active collaboration with partner institutes
- oral presentations at conferences and workshops
- publication of results in peer reviewed journals

If you have any questions, please contact Dr. Lars Rebohle, Tel.: +49 351 260 - 3368 or Dr. Yordan Georgiev, Tel.: +49 351 260 - 2321.

Kindly submit your completed application (including cover letter, CV, diplomas/transcripts, etc.) by 30 April 2017 **only** via **Online application** <https://www.hzdr.de/jobs>.

The HZDR is committed to equal opportunity employment and we strongly encourage applications from qualified female candidates. We also carefully consider all applications from job candidates with severe disabilities.

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