

The Leibniz-Institut für Kristallzüchtung (IKZ) is a leading research institution in the area of science & technology as well as service & transfer of crystalline materials. Our goal is to enable solutions for urgent societal challenges (e.g. communication, artificial intelligence, climate protection, health etc.) by modern electronic & photonic technologies. The work covers the full spectrum from basic over applied research up to pre-industrial development and is performed in collaboration with national and international partners from university, academy and industry. The institute is part of Forschungsverbund Berlin (<https://www.fv-berlin.de/>) and a member of the Leibniz Association www.leibniz-gemeinschaft.de. You can find more details on the institute webpage: www.ikz-berlin.de.

Commencing as soon as possible there is an opening for a

Postdoctoral Researcher (m/f/d)

The section "Semiconductor Nanostructures" of the IKZ deals with epitaxy and characterization of thin crystalline layers and nanostructures. One focus is on the development of novel crystalline structures and crystal growth methods. As part of a new project, focused laser radiation is to be used in a grid-like manner, so that a resulting thermal inhomogeneity is intended to cause the selective formation of liquid and ultimately crystalline structures on a substrate. Such islands can serve as precursors for the locally defined growth of compound semiconductors.

The work covers fundamental physics as well as application oriented materials research. The research benefits from co-operation between IKZ, Bundesanstalt für Materialforschung und –prüfung (BAM) and Universität Duisburg/Essen (UDE) as well as several industrial partners.

Applicant's responsibilities:

- Collaboration in installation and operation of a new crystal growth equipment
- Process-accompanying standard characterization (e.g. SEM, AFM, X-ray diffraction)
- Project management and presentation of results

Applicant must have mandatory:

- PhD in physics, chemistry, materials science or a related discipline
- Expertise in the field of growth techniques like PVD and CVD and knowledge regarding thin film characterization (in situ and ex situ)
- Experimental skills to carry out routine maintenance tasks and technical improvements
- Good English knowledge and skills in the publication of scientific results

For information about the position contact: Dr. Torsten Boeck, torsten.boeck@ikz-berlin.de, Phone +49 30 6392 3051.

The position is initially limited in time for 2 years and is remunerated according to the public tariff law TVöD (Bund). The Leibniz-Institut für Kristallzüchtung aims to increase the proportion of women. Applications from women are therefore expressly welcome. Severely handicapped persons with equal aptitude will be given preferential consideration. The Leibniz-Institut für Kristallzüchtung actively supports the compatibility of career and family.

Have we aroused your interest?

Then apply with a letter of motivation, curriculum vitae and all relevant certificates by **23.10.2020**. To do so, please go to [Job offers/jobs](#) on our homepage and click on this advertisement and then on ["Apply online"](#). Please send us your complete application documents this way.

We are looking forward to receiving your application!