

- IHP GmbH Leibniz Institute for High Performance Microelectronics/ Leibniz-Institut für innovative Mikroelektronik



Research associate (m/w/d) for ALD and PECVD

Job-ID: 7056/25 | Department: Technology | Salary: as per tariff (TV-L) | Working Time: 40h/week (part-time option possible) | Limitation: initially for 2 years with option of extension | Starting Date: as soon as possible

IHP is an institute of the Leibniz Association and conducts research and development of silicon-based systems and ultra high-frequency circuits and technologies including new materials. It develops innovative solutions for application areas such as wireless and broadband communication, security, medical technology, industry 4.0, automotive industry, and aerospace. IHP employs approximately 380 people. It operates a pilot line for technological developments and the preparation of high-speed circuits with 0.13/0.25 μ m-SiGe-BiCMOS technologies, located in a 1500 m² cleanroom that meets the highest industrial nanotechnology requirements.

The position:

Research Associate in the field of ALD and PECVD: You will operate and maintain process tools within the cluster, identifying and resolving any process-related issues that arise. You will contribute to the development and refinement of new processes for Atomic Layer Deposition (ALD) and Plasma-Enhanced Chemical Vapor Deposition (PECVD). Part of your role will involve characterizing thin films using techniques such as ellipsometry, four-point probe measurements, and atomic force microscopy (AFM). You will analyze experimental data and clearly report your findings to both internal stakeholders and external collaboration partners. Additionally, you will apply statistical process control (SPC) methods to monitor and ensure consistent tool performance within the cluster.

Your qualifications:

You hold a Master's degree in Chemistry, Physics, Electrical Engineering, or micro and nano technology with a background in semiconductor technology. Experience working in a cleanroom environment and knowledge of semiconductor device fabrication are advantageous. Your specialized expertise should ideally include operating thin-film deposition tools (such as ALD and/or PECVD) and characterization techniques. Knowledge of process development and process optimization to meet device-specific requirements is a plus. You are highly organized and capable of working collaboratively within a multinational team. Thanks to your skillful communication, you are a binding and reliable contact person for our partners. It is necessary that you confidently handle the English language. Knowledge of the German language is welcome.





- IHP GmbH Leibniz Institute for High Performance Microelectronics/ Leibniz-Institut für innovative Mikroelektronik

Our Offer:

Conduct research in a challenging, multinational environment giving you excellent career opportunities. You will have the chance to establish international reputation at the edge of top-notch technologies.

It is important to us to support the individual career developments (e.g. conferences, advanced trainings) as well as the personal needs of our employees by offering flexible working hours and the possibility to work off-site. The compatibility of work and family is highly valued. More information about our scientific excellence and the working environment at IHP can be found on our website.

IHP is TOTAL E-QUALITY-certified for equal opportunities for women and men at work and actively pursues the equality of all gender and all groups of people. We promote the professional development of women and strongly encourage them to apply. Disabled applicants, qualified according to the above criteria, will be given preference over other candidates with equivalent relevant qualifications.

Further advantages:

30 days holiday | special annual payment | Company pension scheme (VBL) | Flexible working hours, also part-time (no core working hours) | Possibility to work up to 40 % independent of location according to company agreement | Parent-child room as a possibility to work with a child in case of childcare bottlenecks | A wide range of further training opportunities in-house or within the framework of business trips | Discounted company ticket with monthly allowance of \in 15 for various fare zones | Good transport connections, free parking at the institute | Canteen with breakfast and lunch | On-site health services | Company family and care guides | Free, confidential counselling by an external service provider in a wide variety of challenging private or professional situations, for example on how to reconcile work and family life or in psychosocial emergencies | Structured induction and actively supported integration into the institute (welcome workshop, intercultural workshop, joint leisure activities)

Your application:

Have we sparked your interest? We look forward to receiving your application in German or English via our <u>online</u> <u>application form</u>.

For further information regarding the position please contact Dr. Lisker: <u>career@ihp-microelectronics.com</u>.

