IHP GmbH - Leibniz-Institut für innovative Mikroelektronik

Das IHP ist ein Institut der Leibniz-Gemeinschaft und betreibt Forschung und Entwicklung zu siliziumbasierten Systemen, Höchstfrequenz-Schaltungen und -Technologien einschließlich neuer Materialien. Es erarbeitet innovative Lösungen für Anwendungsbereiche wie die drahtlose und Breitbandkommunikation, Sicherheit, Medizintechnik, Industrie 4.0, Mobilität und Raumfahrt. Das IHP beschäftigt ca. 330 Mitarbeiterinnen und Mitarbeiter. Es verfügt über eine Pilotlinie für technologische Entwicklungen und die Präparation von Hochgeschwindigkeits-Schaltkreisen mit 0,13/0,25 µm-BiCMOS-Technologien, die sich in einem 1000 m² großen Reinraum der Klasse 1 befindet.

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

City: Frankfurt (Oder); Starting date (earliest): At the earliest possible; Duration: 2 years (option of extension); Remuneration: TV-L

Working field

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.

Requirements

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 thinfilm 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.

What we offer

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.

Application

Online-Application Form:

https://www.ihp-microelectronics.com/career/vacancies/online-application-form?job=7056/25#c977

More information at https://stellenticket.de/194420/HTWB/
Offer visible until 11/06/25