



Research Associate (m/f/d) for Ion Implantation

Job-ID: 7023/24 | Department: Technology | Salary: as per tariff (TV-L) | Working Time: 40h/week (part-time option possible) | Limitation: initially 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 μm -SiGe-BiCMOS technologies, located in a 1500 m² cleanroom that meets the highest industrial nanotechnology requirements.

The position:

As a member of the team “Process and Device Research” within the department Technology you will contribute to research in the field of ion implantation, which enables the fabrication of electronic and optoelectronic devices in the 0.13/0.25 μm -SiGe-BiCMOS technology families. You will develop recipes on different ion implantation tools, which are part of the IHP clean room. The tool stability and statistical process control are involved in your daily routine.

Furthermore, you will collaborate with members of the Materials Research Department, to develop fundamental components for future qubit devices. This includes the electrical characterization of devices at cryogenic temperatures. An international team of more than 20 scientists and engineers including very experienced scientists as well as several PhD students is looking forward to you. Flat hierarchies and mutual support are important to us. We see diversity of perspectives as a great advantage for our team.

Your tasks:

- maintain in-time functionality and continue processing of ion implantation equipments
- enabling the fabrication of electronic and optoelectronic devices in the 0.13/0.25 μm -SiGe-BiCMOS technology families
- development of recipes on different ion implantation tools
- ensure tool stability and statistical process control as daily routine
- reporting to group leader
- support of RD projects





Your qualifications:

You hold a Master's degree in Physics, Electrical Engineering, Technical Informatics or a comparable study area. You are already experienced in electrical characterization of devices and data analysis. Ideally, but not mandatory you have a background in semiconductor physics and devices.

You are also a strong team player. We are looking for a team member, who is able to structure his or her own work and to bring a well-organized and systematic way of working into the cooperation with creative minds. You are an ideal match for this position, when you have experimental, analytical and problem-solving skills, very strong communicative skills and the ability to quickly learn how to operate the latest technical equipment including various software. It is necessary that you confidently handle the English language. Knowledge of the German language is welcome. The deepening of German language skills is expected and highly encouraged, for example in in-house language courses and intensive courses.

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. XXX.

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.

Your application:

Have we sparked your interest? Then we look forward to receiving your application via our [online application form](#).

For further information regarding the position please contact LISKER: career@ihp-microelectronics.com.

