



Postdoc (m/f/d) for Group-IV Epitaxy Process

Job-ID: 7053/21 | Dept.: D-T | Salary: according TV-L | Working time: 40h/week | Limitation: initially 1 year with option of extension | Entry Date: 01.04.2021

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 330 people. It operates a pilot line for technological developments and the preparation of high-speed circuits with 0.13/0.25 μm BiCMOS technologies, located in a 1000 m² class 1 cleanroom.

The Research/Position:

- Research associate for group-IV epitaxy
- New process development for highly robust and precisely controlled selective and non-selective Si / SiGe / Ge epitaxy including in-situ doping
- High level evaluation / characterization of material and electrical properties of epitaxial layers
- As a part of process research team, research topic will be mainly focused on fundamental basic research to device application for SiGe:C BiCMOS / photonics devices integration and future emerging technologies such as qubit
- Participation in national and international research projects and conferences

Your Qualifications:

- Ph.D. degree in the field of physics, semiconductor engineering, material science
- Experiences and good knowledge in the field of group-IV epitaxy process technology and material / electrical diagnostics
- Highly motivated with very good experimental and theoretical skills
- Experiences in cleanroom operation
- Very good English language skills
- Basic German skills are an advantage. Deepening German language skills is expected and encouraged, for example in in-house courses.

Our Offer:

Do research in a challenging, multinational environment giving you excellent career opportunities. You will have the opportunity to broaden your 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.

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 **until January 22nd** via our [online application form](#).

For further information regarding the position please contact Yuji Yamamoto: yamamoto@ihp-microelectronics.com.

