



Scientist (m/f/d) for CVD growth of SiGe/Si

Job-ID: 0083/19 | Dept.: Technology & Materials Research | Salary: according TV-L | Limitation: initially 1 year with option of extension |
Entry 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 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 m^2 class 1 cleanroom.

Group IV (SiGe) heteroepitaxy provides a critical platform for various Si-based technologies, such as SiGe:C BiCMOS, Si-Photonics and electron spin-based quantum computing approaches. The research is conducted by an inter-divisional research team consisting of scientists from the Materials Research and Technology departments.

Your research task:

- Tackling various growth aspects and engineering CVD growth strategies on 200mm Si wafers
- Participating in the structural characterization (SIMS, TEM, XRD etc.) and carefully evaluating the material quality
- Supporting different Group-IV (i.e. Si, SiGe, Ge)-based research projects as well as assisting to maintain the overall epitaxy process stability of IHP's pilot line
- A PhD degree can be pursued and is highly encouraged

Your qualifications:

- Master degree in physics, materials science, chemistry or similar
- Strong background in solid state/semiconductor physics and their epitaxial growth and materials characterization
- Ideally practical experience in the MBE, CVD or MOCVD and CMOS process technology
- Very good oral and written skills in English (and German)

Our Offer:

Do research in a challenging, multinational environment, with excellent career prospects. You will have the opportunity to establish an international reputation at the forefront of high tech. It is important to us to support the individual career developments of our employees (e.g. conferences, advanced trainings). More information about our scientific excellence and the working environment at IHP can be found on our website.

IHP seeks to incorporate more women into the science field. Therefore women are strongly encouraged 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 Dr. Wolfgang Klesse:
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