



Research associate for device modelling (m/w/d) – compact modelling of active and passive devices of SiGe-BiCMOS and EPIC technologies

Job-ID: 7018/22 | Department: Technology | Salary: according TV-L | Working time: 40h/week (part-time work option) | Limitation: initially 2 years with option of extension for three more years | 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 350 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.

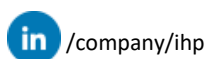
The position:

As a member of the group Research & Prototyping Service you will model active and passive devices of bipolar and MOS technologies. Your tasks also include the design and testing of modeling structures and measurements, the review of the created models and their integration into the verification process. For the modeling we partly cooperate with partner companies. We will trustfully place the coordination of cooperation with our partner companies in your hands. We expect you to support our partners within the scope of the models.

Your profile:

You are holding a Master's degree in physics, electrical engineering or a comparable fields of study. You have already obtained very good knowledge of semiconductor technology, experience in electrical characterization of semiconductor devices. Knowledge in high frequency characterization are of advantage. Furthermore creativity in finding technical solutions and ingenuity in the further development of models characterize you. Your specialized knowledge preferably covers modeling software (KeySight), Linux and scripting languages (e.g. Python, Perl or TCL).

You are well organized and always keep the overview even with many parallel projects. Thanks to your skillful communication you are a binding and reliable contact person for our partners. You are also a strong team player and you confidently handle the German and English language.





Our offer:

Do 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 task includes extensive model development within the framework of the standardized technologies of the IHP, as well as new developments. For motivated applicants, the position therefore also offers the potential for a PhD. 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:

We are looking forward to your application. Please apply via our [online application form](#) until **February 28th 2022**.

For further information regarding the position please contact Dr. René Scholz, leader of the group Research & Prototyping Service: career@ihp-microelectronics.com.