



## PhD Position (m/f/d) - Transceivers for sub-THz Imagingx

Job-ID: 5063/24 | Department: Circuit Design | Salary: as per tariff (TV-L) | Working Time: 40h/week |  
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  $\mu\text{m}$ -SiGe-BiCMOS technologies, located in a 1500 m<sup>2</sup> cleanroom that meets the highest industrial nanotechnology requirements.

### The position:

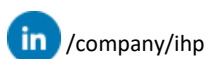
As a member within the department Circuit Design you will contribute to the design and development of signal sources and transceivers for sub-THz imaging. You will participate in a dynamic international research environment towards a PhD. Your focus will be on next-gen mm-wave and sub-THz integrated circuits in SiGe. Beside that you will work together with leading external partners within the frame of national and international research projects.

### Your qualifications:

You have relevant university or master's degree in an electronic or microelectronic related field. You have extensive theoretical and practical background in microwave theory and RFIC design above 6 GHz and you also have demonstrated experience with EDA tools for IC design and EM simulations.

We need you to be a strong team player, able to effectively plan and execute your own work, and to work in an organized manner with other creative minds. You will be ideally suited for this position if you have very good knowledge of project management and the requirements and structures of national and European research funding.

As IHP is an international research center, it is necessary that you are fluent in English. German language skills are welcome. The improvement of German language skills is expected and strongly encouraged, e.g. through 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.

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.

### Further advantages:

30 days holiday | special annual payment | Company pension scheme (VBL) | Flexible working hours, also part-time (no core working hours) | Possibility to work up to 40 % independent of location according to company agreement | Parent-child room as a possibility to work with a child in case of childcare bottlenecks | A wide range of further training opportunities in-house or within the framework of business trips | Discounted company ticket with monthly allowance of € 15 for various fare zones | Good transport connections, free parking at the institute | Canteen with breakfast and lunch | On-site health services | Company family and care guides | Free, confidential counselling by an external service provider in a wide variety of challenging private or professional situations, for example on how to reconcile work and family life or in psychosocial emergencies | Structured induction and actively supported integration into the institute (welcome workshop, intercultural workshop, joint leisure activities)

### Your application:

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

For further information regarding the position please contact Prof. C. Carta: [career@ihp-microelectronics.com](mailto:career@ihp-microelectronics.com)

