



## Engineer position (m/f/d) for “Open-source PDK & EDA Tool support on a Cloud test system”

Job-ID: 7033/25 | Department: Technology | Salary: as per tariff (TV-L) | Working Time: 40h/week ((part-time work option) |  
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:

Join our Research and Prototyping Service group within the Technology department at IHP and contribute to the development and deployment of our open-source Process Design Kit (PDK) and Electronic Design Automation (EDA) tools in a cloud test environment. Your role will involve:

- Installing and testing open-source EDA tools in a cloud environment.
- Verifying the existing open-source PDK with test circuits and assisting in the development of training materials.
- Conducting user training sessions and addressing user inquiries.

You'll be part of an international team of 12 developers who are eager to welcome a new member. We value flat hierarchies and mutual support. Our team benefits from a diversity of perspectives, and we are committed to achieving a balanced gender mix.

### Your qualifications:

You hold a Bachelor's degree in Computer Sciences, Electrical Engineering, or a related field with a focus on semiconductors or IC design. You should be comfortable working in a Linux environment and using GitHub. Experience in ASIC design environments with open-source EDA tools is preferred. Skills in scripting languages such as Python, Perl, or TCL are required.



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We are seeking a strong team player who can structure their own work and integrate a systematic approach to collaboration with creative colleagues. You should possess experimental, analytical, and problem-solving abilities, along with strong communication skills and the capacity to quickly adapt to new technologies and software. It is necessary that you confidently handle the English language.

#### **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 | 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 | 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 in German or English via our [online application form](#).

For further information regarding the position please contact Dr. Frank Vater: [career@ihp-microelectronics.com](mailto:career@ihp-microelectronics.com).



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