



PhD Position (m/f/d) in the field of ADC converters

Job-ID: 5066/23 | Department: D-CD | Salary: as per tariff (TV-L) | Working Time: 40h/week (part-time work option) | Limitation: initially 2 years with option of extension for three more years | 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 μm -SiGe-BiCMOS technologies, located in a 1500 m² cleanroom that meets the highest industrial nanotechnology requirements.

The position:

As a member of the research group “Converters and High-Speed Logic Circuits” within the Circuit Design department you will contribute to research in the field of analog-to-digital converters.

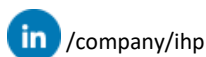
You will be part of an international team of researchers within a department of scientists and engineers with a broad range of expertise areas. Flat hierarchies and mutual support are important to us. We see a diversity of perspectives as a great asset to our team and we strive for a balanced gender mix in our team.

In this role, you will be responsible for the design and development of ADC macro cells and associated test ICs. Your tasks will vary, from circuit simulation, to layout, verification, and finally testing and evaluation of the developed ICs.

Your qualifications:

You hold a Master's degree in electrical engineering or a comparable study area. You have a strong background in analog IC design. You have a good knowledge of sampling theory and ADC architectures. We expect a solid experience in use of EDA tools (e.g. Matlab, IC development software, etc.). You are curious and motivated to push the current state-of-the-art limits in the area of ADC ICs.

You have very good communication skills and are able to work in teams. We are looking for candidates able to structure their own work and communicate their approach to others. You are an ideal match for this position if you have experimental, analytical and problem-solving skills, as well as the ability to learn quickly how to operate the latest technical equipment, including various software tools.





It is necessary that you are able to work confidently in English. Knowledge of German is very beneficial, but not strictly necessary; IHP will support you in learning German.

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. An orientation guide will help you to quickly integrate into the institute and to familiarize yourself with the field.

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? Then we look forward to receiving your application via our [online application form](#).

For further information regarding the position please contact Mr. Ostrovskyy: career@ihp-microelectronics.com.

