

IHP GmbH - Leibniz-Institut für innovative Mikroelektronik



Das IHP ist ein Institut der Leibniz-Gemeinschaft und betreibt Forschung und Entwicklung zu siliziumbasierten Systemen, Höchstfrequenz-Schaltungen und -Technologien einschließlich neuer Materialien. Es erarbeitet innovative Lösungen für Anwendungsbereiche wie die drahtlose und Breitbandkommunikation, Sicherheit, Medizintechnik, Industrie 4.0, Mobilität und Raumfahrt. Das IHP beschäftigt ca. 330 Mitarbeiterinnen und Mitarbeiter. Es verfügt über eine Pilotlinie für technologische Entwicklungen und die Präparation von Hochgeschwindigkeits-Schaltkreisen mit 0,13/0,25 µm-BiCMOS-Technologien, die sich in einem 1000 m² großen Reinraum der Klasse 1 befindet.

Intern or student assistant position (m/f/d) for “Developing demonstrators of RISC-V processors”

Job-ID: 3112/25 | Department: System Architecture | Working Time: 19h/week |
Limitation: 3-6 months | Entry Date: as soon as possible | Salary (only if student job): as
per Guideline of the State of Brandenburg on the Working Conditions of Scientific and
Student Assistants

City: Frankfurt (Oder); Starting date (earliest): At the earliest possible; Duration: 3-6
months; Remuneration: TV-L

Working field

The position:

We are looking for a motivated student to join our team to work on RISC-V-based processing platforms.

This position offers hands-on experience in both hardware and firmware development, bridging the gap between embedded systems design and real-world implementation. Your detailed tasks will include:

- Understand and work with RISC-V-based processing architectures
- Develop and debug firmware interacting closely with hardware components in a real system
- Build RISC-V demonstrator systems, which may include:
- Prototyping PCBs with RISC-V ASICs
- Integrating external components, such as flash memory or peripheral interfaces
- Programming and managing flash memory devices
- Debugging and enabling external flash booting

Requirements

Your qualifications:

- Bachelor students in electronics, computer engineering, embedded systems, or related majors
- Basic understanding of computer architecture or embedded systems

- Experience with C programming and hardware debugging tools (e.g., JTAG, logic analyzers) is a plus
- Interest in RISC-V, hardware/software co-design, or system bring-up

What we offer

Our Offer:

Explore a challenging, multinational environment, conduct your own early-stage research and build your career in a renowned institute at the forefront of cutting-edge technologies.

We are committed to supporting the individual career development and personal needs of our staff by offering flexible working hours and the opportunity to work remotely. The balance between work and family life is highly valued. 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. If you are looking for accommodation in Frankfurt (Oder) for the duration of your internship, our Relocation Service will be happy to assist you.

Application

Have we sparked your interest? Then we look forward to receiving your application via our online application form.

More information at <https://stellenticket.de/199642/TUBS/>
Offer visible until 24/12/25

