



## Research Assistant / PhD position (m/f/d) for AI Analytics, Statistics, Econometrics and Intelligent Data Platforms

Job-ID: 3058/26 | Department: System Architecture | Working Time: 40h/week | Salary: E13 TV-L | Limitation: 2 years with option of extension  
| 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 400 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:

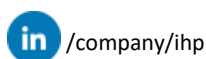
The position supports ongoing research and innovation activities in projects including:

- MobiRobA I – intelligent robotics and artificial intelligence systems
- SmartRiver – data-driven intelligent systems for the Oder region
- SensorNet – distributed sensing and intelligent monitoring platforms

Particular emphasis will be placed on AI-supported analytical pipelines, hybrid human-AI work flows, intelligent data processing, KPI-driven system evaluation, quantitative modelling, data driven decision support, and responsible AI methods, all in relation to innovation transfer. It is anticipated that the candidate will work toward a PhD.

Your Detailed Tasks Will Include:

- Support development of AI-supported analytical pipelines using Python, R, SQL and data driven workflows
- Support intelligent data processing, model tuning, quantitative analysis, and performance evaluation
- Support statistical analysis, econometric modelling, and quantitative evaluation for intelligent systems
- Contribute to KPI definition, dashboard-based monitoring, and intelligent reporting modules
- Support hybrid human-AI workflows, decision-routing approaches, and intelligent research modules
- Contribute to AI model comparison, including CNN- and Transformer-based approaches where applicable
- Support fairness-aware and responsible AI research, including model validation, bias analysis, and methodological support
- Support data pipeline scoping, feature requirements, and module integration for research platforms
- Contribute to project management, interdisciplinary coordination, and scientific documentation
- Support innovation transfer activities including market analysis, business model assessment, and techno-economic analysis





### Your qualifications:

You hold a Master's degree in International Business Administration, Business Informatics, Data Analytics or related field.

You have knowledge and practical experience in several of the following areas:

- Artificial intelligence and applied AI research
- Data processing, statistical analysis, and model tuning
- Statistics, econometrics, quantitative modelling, and data analysis
- Python, R, SQL, and analytical data workflows
- Business intelligence tools such as Power BI, Tableau, or related platforms
- Hybrid human-AI systems and intelligent decision support
- AI model evaluation, fairness analysis, or responsible AI
- KPI definition, data pipelines, dashboards, and intelligent modules
- Project management and interdisciplinary research coordination
- Market-oriented analysis at the intersection of business and technology

Experience with AI-supported analytical systems, quantitative empirical research, statistical or econometric modelling, dashboard-driven decision support, or comparative evaluation of machine learning architectures is particularly desirable.

### Personal Profile:

We are looking for a team member who can contribute across both technical and business-oriented domains and bring a structured, analytical, and research-driven approach to interdisciplinary projects.

You will be an ideal fit if you have:

- Strong analytical and quantitative problem-solving skills
- Experience in data analytics, business intelligence, applied AI support, or quantitative modelling
- Ability to engage meaningfully across research, technical, and business domains
- Strong communication skills
- Fluency in English

German language skills are welcome and further development is strongly encouraged

### Our Offer:

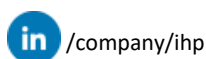
Conduct research in a challenging, multinational environment giving you excellent career opportunities. You will have the chance to establish international reputation at the edge of top-notch technologies.

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 | Good transport connections





**Your application:**

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

For more information about the position, please contact Krzysztof Piotrowski: [career@ihp-microelectronics.com](mailto:career@ihp-microelectronics.com).

