



Call for applications

IHP has the pleasure to invite applications for the

International IHP „Wolfgang Mehr“ Fellowship Award 2026 “Power Amplifiers for Future Radio Systems at millimeter-wave and sub-THz Frequencies”

The **International IHP „Wolfgang Mehr“ Fellowship Award** is devoted to carry out in close collaboration with IHP research in the area of “Power Amplifiers for Future Radio Systems at millimeter-wave and sub-THz Frequencies”. Following the spirit of IHP’s former Scientific Director Wolfgang Mehr, the annual fellowship award is focused on an innovative, interdisciplinary research topic with high potential for technology breakthroughs, giving a high degree of freedom to the award winner to work in an interdisciplinary environment with a strong potential across several research areas.

The winner of the **International IHP „Wolfgang Mehr“ Fellowship Award 2026** must enjoy an excellent international reputation and will receive the prize money of 12,500 €, honoring the award winner’s research achievements. The aim of the fellowship award is to realize at least one of the following strategic research targets in close collaboration with IHP:

- identify the potential of a novel research direction
- initiate a new and innovative research project
- intensify a successful research collaboration

The focus of the joint research activities should be on utilizing the SiGe BiCMOS transistor technologies of IHP to design and implement power amplifiers for next-generation radio systems in communication, sensing and radar at frequencies above 100 GHz. A clear path towards the realization of >100-GHz power amplifiers, including their architecture and transistor-level design, will be sought, which will ultimately enable state-of-the-art performance in output power, efficiency and linearity. Emphasis will be put on identifying optimum circuit topologies and implementation strategies that can make the best use of high-performance front-end and back-end offerings unique to IHP’s SiGe BiCMOS foundry. In addition, possible collaboration plans will be discussed to identify technology



development directions for IHP's SiGe, InP and hetero-integrations, which will push the performance limits of >100-GHz power amplifiers.

Overall, the joint research efforts are expected to significantly enhance the performance of future radio systems by enabling higher output power, higher efficiency and improved linearity.

The award winner must have a strong background in millimeter-wave power amplifiers in silicon and compound semiconductor technologies operating at frequencies above 100 GHz, demonstrating record-breaking performance and innovative design approaches, targeted towards millimeter-wave radar, sensing and wireless communication applications. Research experience in integrated transmitters and receivers at similar frequency bands is a plus. A strong drive towards connecting with interdisciplinary and international R&D networks which are currently laying the foundations of future systems is expected.

IHP seeks to incorporate more women into the science field – therefore, women are strongly encouraged to apply.

We assume the selected fellow is able to stay at IHP for three months on a flexible time schedule in a timeframe of 12 months starting from the day of nomination. Accommodation and travel costs are to be covered from the prize money.

To be considered, applications should be submitted **by April 19, 2026** via our [online application form](#). The following documents are required:

- Letter of motivation
- Project description: two pages including a time plan for a three-month fellowship stay at IHP
- Curriculum vitae
- Publication list
- Summary of the main scientific achievements in the field

For further information regarding the fellowship please contact Prof. Dr. Corrado Carta, Head of the Circuit-Design Department (career@ihp-microelectronics.com).