

The Institute of Radio Frequency Technology's main research topics are millimeter-wave passive circuits, adaptive microwave antennas, numerical modelling and material characterization techniques.

We are currently having an open position for a

Research Assistant / PhD Student

to contribute to our research on

Over-the-Air (OTA) production-test concepts for future millimeter-wave antenna array modules



[Advantest]

Transceiver front-ends for millimeter-wave wireless communications, such as driven by 5G and 6G systems, are increasingly integrated together with antenna arrays within compact module form factors. The production test and calibration of such modules requires new over-the-air (OTA) measurement concepts. This project shall investigate new OTA concepts, addressing electromagnetic and antenna aspects as well as strategies and requirements for test and calibration of large arrays.

The project is funded by ADVANTEST through the Graduate School "Intelligent Methods for Semiconductor Test and Reliability" (GS-IMTR). Work will be conducted at the Institute of Radio Frequency Technology (IHf) of University of Stuttgart. The program of the Graduate School includes a supervision concept, mentorship from ADVANTEST, measures for international mobility and a research stay abroad, as well as a tailored qualification program with subject-based and soft-skill courses. See also: <https://www.gs-imtr.uni-stuttgart.de>

We are looking for a creative and enthusiastic team player. You should possess a very good Master degree in electronics (or, a similar field) and reasonable knowledge in radio frequency technology (or, microwave techniques and electromagnetics). We expect you to show a high level of proficiency in spoken and written English.

For further information please contact Prof. Dr. Jan Hesselbarth or send your complete application (motivation letter, academic resumé, Master transcript of records) to jan.hesselbarth@ihf.uni-stuttgart.de

