



Open Ph.D. and PostDoc Positions (TVL-E13/100 %) in Microelectronics and Quantum Technologies at the University of Stuttgart

The Institute of Smart Sensors at the University of Stuttgart is looking for researchers holding a Master's degree (or equivalent) who are interested in pursuing research towards a Ph.D. degree as part of one of the following projects:

Integrated transceivers for diamond-based quantum sensing

Integrated transceivers for SIC-based quantum sensing

Integrated transceivers for quantum sensors in biomedical applications

Integrated transceivers for in-situ EPR spectrometers

Integrated millimeter-wave EPR transceivers

In addition to the above-listed projects, the Institute of Smart Sensors is continuously looking for excellent Ph.D. students and PostDocs in a variety of other topics and encourages candidates to apply.

What we offer:

- A stimulating research environment with currently 26 Ph.D. students working on a broad range of IC design topics for various applications in smart sensing for biomedical and materials science applications as well as quantum technologies
- The possibility of obtaining a Ph.D. degree from one of Germany's leading technical universities
- Access to all state-of-the-art IC design tools
- Large experience in IC manufacturing
- A fully equipped mixed-signal lab for chip characterizations
- Access to state-of-the-art cleanroom manufacturing technologies via a strong collaboration with IMS CHIPS in Stuttgart
- Collaborations with leading industrial and academic partners
- Competitive annual gross salary - depending on experience level - of >40.000€

What we expect:

- Experience in analog and mixed-signal integrated circuit design
- Strong background in microelectronics or a similar field of study
- Curiosity to expand your knowledge into interesting applications
- Very good knowledge of the English language
- Strong motivation to introduce innovations into a current research topic
- The ability to work in a team
- Flexibility and dedication

Candidates should send their application electronically by e-mail to: application@iis.uni-stuttgart.de. The application in English or German should include a CV, a short motivation letter, and a transcript of records of the Bachelor's and Master's degrees. An abstract of the Master's or Ph.D. thesis may also be included.

