

Karlsruhe Institute of Technology (KIT) combines the mission of a University with that of a National Research Center of the Helmholtz Association. Counting more than 9000 employees, KIT is one of the leading research centers and education institutions in Europe.

The Institute of Photonics and Quantum Electronics (IPQ) at Karlsruhe Institute of Technology (KIT) calls for applications for an open

## **Postdoc Position** in the area of **Organic Materials for Nanophotonic Circuits**

We have an open position for an ambitious post-doctoral researcher with outstanding scientific records and strong theoretical and experimental background in at least one of the following areas:

- Organic electro-optic materials
- Organic materials for photonic integration
- Hybrid integration of silicon photonic waveguides with other materials
- Photoresist development
- Modeling, design, fabrication, and characterization of photonic integrated circuits

The candidate holding this position will have the opportunity to lead a small group, which will initially consist of 2 - 3 PhD and some master students. We expect candidates to develop and pursue their own ideas and to execute existing and initiate new collaborative research projects with international partners. The activities are closely linked to research in the areas of silicon photonics, silicon-organic hybrid (SOH) integration and high-speed data communications within our institute. This opens the unique opportunity to explore novel materials and device concepts in first-time data transmission demonstrations. An ambitious post-doctoral researcher will find an excellent opportunity to combine high-level scientific research with leadership responsibilities, thereby gaining experience in building up an own research environment.

Applicants should have completed a PhD in Chemistry, Material Science, Physics or related fields with a background in polymer science. We expect excellent writing and oral communication skills along with the ability to work independently and to help instructing PhD candidates. Applicants are encouraged to submit their application documents (CV, certificates, references) electronically as one single pdf file to Prof. C. Koos.

### **Prof. Dr. Christian Koos**

Karlsruhe Institute of Technology (KIT)  
Institute of Photonics and Quantum Electronics (IPQ)  
Engesserstrasse 5, Building 30.10  
D-76131 Karlsruhe  
Germany

Tel. +49-721-608-42491

Email: [christian.koos@kit.edu](mailto:christian.koos@kit.edu)

Web: [www.ipq.kit.edu](http://www.ipq.kit.edu)