

PhD Position



At i-MEET, we invite applications for a fully funded PhD position focused on the development of light-emitting and sensing devices based on solution-processed lead-free halide perovskites, double perovskites, and related materials.

The topic of the PhD project will be the synthesis of materials, studying the photophysical processes, and developing device architecture by selecting and optimizing transport layers and contacts. This will involve characterizing the structural, electronic, and optical properties of the active materials, as well as the entire devices. Further, stability issues will be addressed.

You will work at i-MEET, the chair of Prof. C. J. Brabec, at FAU's Faculty of Engineering, with close collaboration and with access to the AI-guided high-throughput facilities at the Helmholtz Institute HiERN.

The position is embedded within the International Research Training Group (IGK 2495) "Energy Conversion Systems: From Materials to Devices". The IGK2495 was established with the Nagoya Institute of Technology, Japan, in order to better understand lead-free perovskite materials for photo-electro-mechanical energy conversion systems. Of particular importance is the improved understanding of the phenomena responsible for energy conversion, the development, and the implementation of state-of-the-art lead-free perovskite materials, as well as novel 2D and 3D processing techniques and their integration into devices. The salary is according to German standard (E13 TL-V, 100%). All positions are fully funded for 3 years starting on January 1st, 2026 until December 31st, 2028.

Necessary qualifications:

Master's degree in physics, material sciences, nanosciences or chemistry. Strong interest in material science.

Previous experience in synthesis, optical spectroscopy, and electrical characterization techniques is a benefit, but not mandatory.

Please send your application to Claudia Koch (Claudia.koch@fau.de)