Light-Emitting Electrochemical Cells (LECs)

InnovationLab
InnovationLab GmbH (iL) is a research platform that brings together 30 companies, universities and research institutes such as Merck, BASF, University Heidelberg, TU-Darmstadt and the Karlsruhe Institute of Technology (KIT) and enables multidisciplinary work and knowledge transfer under one roof. With the facilities offered at iL, the partners work on the future technology of organic electronics, including the development of semi-transparent solar cells, organic sensors for medical applications, large-area printed OLEDs, flexible displays with OFETs.

Description of Work
The focus of the study lies on Light emitting Electrochemical Cells (LECs) spanning from device fabrication to characterization. The priority will be the active (organic) layer of LECs utilizing different solid polymer electrolytes. As following step gravure printing technique will be used additionally. Hence, within the frame work of this study, thin-film physics and device physics will be covered.

Your Profile
- Knowledge in physics and/or physical chemistry
- Experience in organic thin-film deposition will be a plus
- Good communication skills
- Fluent English skills

We offer you
- Work possibility in an international environment
- Clean-room experience
- Various learning and development opportunities

Field of research
Organic Electronics

Location
InnovationLab (iL)
Heidelberg

Focus
Experimental work in the lab

Major
Physics
Electrical Engineering
Material Science
Physical Chemistry

Starting date
now

Contact
M.Sc. Serpil Tekoglu
Speyerer Straße 4
69115 Heidelberg

Phone:
06221- 54 19 134
Email:
serpil@kit.edu