Bright minds wanted!

We are currently offering a PhD position in OLED research (m/f)! (00032948)

The structured wet-deposition of materials for organic light emitting diodes (OLEDs) is a promising approach for cost-efficient manufacturing of high-performing OLED devices. Printing processes like screen printing, intaglio printing, flexography or inkjet printing are favorite methods for a structured material deposition from solution.

Here, the challenge is finding and matching the right process and material for every layer needed. Within this context, the evaluation of printable materials for substrate layers and organic luminescent stack is one of the main tasks within the doctorate. In collaboration with partners from industry and university, materials will be identified, evaluated and optimized. Experiments will be supported by optical, electrical and thermal simulation if required. The optimized coatings will be integrated into OLED architectures to investigate novel device concepts and designs with respect to luminous efficacy, lifetime and reliability.

For this position we are looking for a highly motivated PhD candidate with a strong interest into an interdisciplinary and complex challenge.

Within the OLED Team you will be working in a predevelopment project, and be contributing to current an upcoming development topics, as well as identifying new and interesting technologies and concepts for OLED development.
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Your tasks

- Materials Screening and evaluation
- Coating materials in the cleanroom
- Adapting material formulation and optimizing the deposition and drying process
- Analyzing the deposited layers with respect to thickness, roughness and morphology, electrical and optical properties as well as outgasing and chemical resistance
- Integrating the developed technology components in an OLED
- Conducting experiments with respect to luminous efficacy, lifetime and reliability and compare the results with existing OLED systems
- Simulation of the optical, electrical and thermal influence of the new materials within the overall OLED-device
- Scientific collaboration with partners from university and industry
- Technology scouting and contributing from to current and upcoming development topics

Your profile:

- Master degree (or equivalent) in physics, chemistry, material science or other field of study relevant to OLED
- Interest in printed electronics and OLED technology
- Knowledge in printing and coating technology as well as thin film analytics are preferable
- Fluent in English (written and oral)
- Self-reliant and highly proactive way of working
- Excellent communication skills

Use your opportunities at OSRAM OLED GmbH and apply online at: www.osram-os.com/career.
We are looking forward to receiving your application!
OSRAM Opto Semiconductors GmbH