

The Faculty of Electrical and Computer Engineering

The Institute of Solid-State Electronics, Chair of Biomedical Sensor Technology, invites applications for a position as

Student Assistant (SHK) / Senior Student Assistant (WHK) (8-10h/week)

starting as soon as possible. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

Background: Encapsulation layers of organic light-emitting diodes (OLEDs) are very important to protect the devices from degradation, as the organic materials are very sensitive to moisture and oxygen. The capability of the encapsulation to protect the device is given by its water vapor transmission rate (WVTR), which can be measured by performing calcium corrosion tests.

Tasks:

- Building a setup to measure the WVTR of encapsulation using the basic principle of calcium corrosion tests
- Testing the WVTR of encapsulations produced in our lab

Requirements:

Enrolled bachelor or master student in the field of (electrical) engineering, physics, or materials science; good technical understanding and basic experimental skills; creativity and enthusiasm for building a setup from scratch according to instructions; ability to work in a team and organizational talent; a very good command of English language.

We offer:

- Hands-on experience in cutting-edge OLED technology and encapsulation research.
- The opportunity to work in a diverse group that works at the interface of natural science and biomedical technology.
- A collaborative and innovative environment where creativity and teamwork are encouraged.
- Flexible working hours to accommodate study commitments.
- Access to state-of-the-art laboratory facilities.
- Potential for academic and professional growth through contributions to publications or conferences.

Applications from women are particularly welcome. The same applies to people with disabilities. Please send your application with the usual documents (curriculum vitae and certificates) to nirbhika.nandakumar@tu-dresden.de.