













### Internationalisation

Research



### Research

#### Smart materials

Nanoscaled and nanostructured materials for fundamental studies at the nanoscale and improvement of novel devices such as reliable organic solar cells

- Metasurfaces and novel quantum plasmonic waveguides
- Polariton induced light matter interaction
- Nanophotonics
- Novel imaging methods including a national infrastructure on chemical imaging at the nanoscale
- Advanced sensors
- Novel techniques for water splitting



## **Educational profiles**

#### **Engineering Physics** BSc and MSc

- program in Odense focusses on optics and photonics
- program in Sønderborg focusses on materials
- strong connection to state-of-the art researchers and research activities

### Medical Microtechnology

MSc

• jointly with Universities in Lübeck, Germany



# Significant projects

can be found on the homepages of the affiliated centres

### POLIMA

Centre of excellence for polariton-driven light matter interactions

**Centre for Nanooptics** theoretical/experimental studies of light-matter interactions at nanoscale

### NanoSYD

Nano- and microtechnologies, including cleanroom and advanced imaging facilities

#### CAPE

centre for advanced photovoltaics and energy materials

### NANOCHEM

national infrastructure on nanoscaled chemical imaging







# Contact

Horst-Günter Rubahn Professor, Director T +45 6011 3517 rubahn@mci.sdu.dk www.sdu.dk/mci

