

## **Instrumentation Master-project in optics:**

We are looking for a person interested in working with optical instrumentation, in particular related to a combined spectroscopic Rotating Analyzer Ellipsometer, Photospectrometer (Reflectance and Transmission), and further developments involving achromatic retarder prisms. The work involves working with data acquisition (Labview and NI-DAQ cards), optical components (monochromators, Si-detectors/PMT detectors, Rochon prisms, Fresnel prisms), automation and finally mathematical formalism of the detected optical signal.

The project may involve characterization studies of optical properties of materials, surfaces and structures for light harvesting applications in solar cell research. The project may also be partially combined with the *Nanostructures for photovoltaic (PV) applications project*.

Contacts:

[Morten.Kildemo@phys.ntnu.no](mailto:Morten.Kildemo@phys.ntnu.no)