

MSc project at a company or institute

MSc thesis theme

Background

It is, in principle, possible to carry out your MSc thesis project in a (Dutch) company or institute. Whether there are opportunities, depends highly on the demand from companies, and the availability of suitable project topics. Since you are a student of the Microsystems research section, it is important that the thesis topic has a clear link with one of the research themes of Microsystems.

If you are interested in carrying out your MSc thesis work in a company, we will decide on a case-to-case basis whether this is possible. We take into account the following considerations:

- Is there any demand / opportunity at a company or institute?
- Does the intended MSc topic offer sufficient opportunity to carry out an in-depth, academic level project?
- Is the link with Microsystems sufficient?
- Does the receiving company/institute provide sufficient supervision and guidance?

Project topics

The topics highly depend on the demand of the company / institute. Some examples of MSc thesis projects carried out in the past by Microsystems students are:

- Philips Research: Design of a microfluidic device for sweat sensing.
- TNO: Development of a high speed 3D printer utilizing two photon polymerization.
- Philips Research: Detection and analysis of ultrafine particles using Self Mixing Interference.
- ASML: Design of a high temperature bulge setup.
- ASML: Design of a piezo actuated wafer table.
- MA3 Solutions: Towards a High-Density Optical Fiber-to-Chip Interface.
- Solliance: Low temperature and rapid processing of highly-efficient flexible Perovskite solar cells.
- Holst Center: Development of a Patch to Measure Core Body Temperature.
- NXP: Design and fabrication of a radar sensing system.
- Microsure: Design of a 3-DoF Force Sensor for Robot-Assisted Minimally Invasive Surgery.
- VDL-ETG: Architecture of an autonomous robot for de-leafing cucumber plants grown in a high-wire cultivation system.

