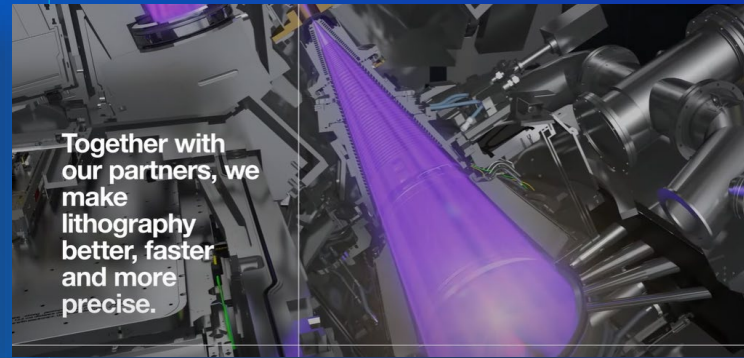


At ASML, we make lithography systems: machines that are used to make chips.



Together with our partners, we make lithography better, faster and more precise.

All major chipmakers use ASML's technology

Veldhoven **ASML**



Annual R&D budget of >€3bn

Europe's biggest tech company by market cap

Wavefront sensor stability

The quality of the used laser beams has direct impact on the accuracy of our measurement systems. One parameter of interest is the wave front of the laser beam.

To measure the wavefront commercial wavefront sensors are available. A practical issue with these wavefront sensors is their stability. Frequent recalibration is required.

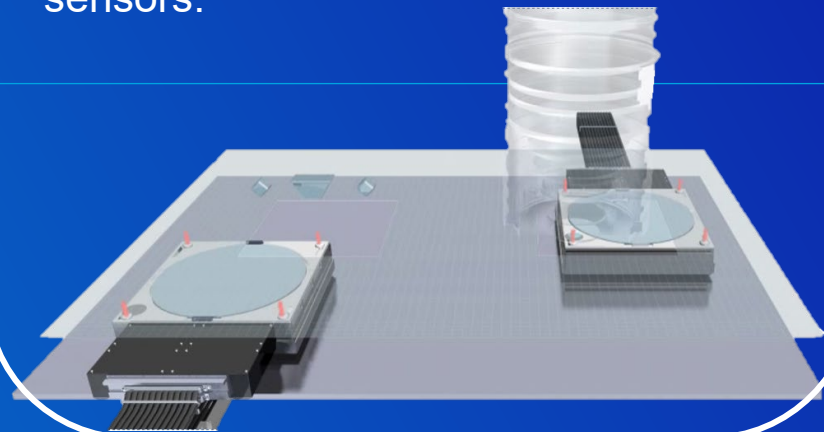
Goals:

- Do a literature study on calibration methods for wavefront sensors.
- Build a set-up to prove a calibration method and determine the accuracy and precision.
- Implement (in Matlab) a method to calibrate a wavefront sensor.

Work within the Stage position measurement department at ASML.

We are responsible for the pose measurement of all high repeatability stages in ASML systems.

Measurements need to be accurate (nm) and fast (μ s). A broad selection of sensors is used from interferometers to capacitive sensors.



Interested and what to apply? Please contact:
Manske Eberhard Univ.-Prof Dr. (Eberhard.Manske@tu-ilmenau.de)
Kissinger Thomas (thomas.kissinger@tu-ilmenau.de)

For more information look at www.asml.com/en/careers/students-new-graduates/netherlands/internships