

Help us build the future !

PhD positions, master's theses and internships



More information



Contact us:

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You are a final-year master student looking for a challenging and thrilling research **PhD** job?

You are a first-year master student looking for an **internship** or a **master's thesis** topic?

You like **nanotechnology**? **You** want to be involved in the development of cutting-edge **nanoelectronic** devices? **You** want to collaborate with the real players of the **semiconductor** industry?

You like physics? **You** want to contribute to developing **knowledge** and **understanding** of semiconductor materials, structures and devices? **You** want to work in a world-leading **research center** and in direct contact with **academia**?

We are a joint team of researchers of imec (www.imec.be) and of the university of Leuven (www.kuleuven.be/english) working on the characterization of advanced materials and devices. **We** are looking for highly motivated PhD and master candidates with background in electrical engineering, semiconductor physics, optoelectronics, materials science or applied mathematics.

Our research is focused on the development of the laser-assisted Atomprobe, a microscope with which **we** can look into materials atom by atom in three dimensions. **We** have applied it to lots of devices but to push its limits even further, **we need you!**

Physics/engineering/material science (60% experimental/40% theoretical):

- Laser-assisted Atomprobe analysis of (compound) semiconductors in confined volumes, calibrated clusters

Physics (40% experimental/60% theoretical):

- Thermal properties of semiconducting nanowires studied with laser-assisted Atomprobe
- Impact of Atomic layer deposited atoms on the properties of an Atomprobe tip

Physics/Maths (20% experimental/80% theoretical):

- Modeling of the interactions between a pulsed laser and a nanoscale Atomprobe tip

