

## Biosensor surface chemistry optimisation

### Photonics Research Group – (<http://photonics.intec.ugent.be>)

The Photonics Research Group at Ghent University studies the use of light for the transport and processing of signals, e.g. through optical fibers. Photonics is one of the core technologies of the internet. Also other applications such as optical biosensor chips are becoming increasingly important. In each case there is a strong push towards miniaturization. Nanophotonics, whereby the dimensions of the devices are limited to a few 100 nanometers therefore is an important research domain within the group. The group has access to a state-of-the-art cleanroom and advanced process technologies for realizing innovative photonic ICs. The research group is one of the most important research centers for these photonic ICs at European or even world level and is involved in numerous international research projects. For many of these projects the group works together with industrial partners. Further, the group is associated with IMEC, Europe's largest nano- and microelectronics research institute.

The Photonics Research Group (UGent / imec) is developing novel light-based biosensors to detect a variety of biomolecules, e.g. in cancer and TB diagnostics. In this context, we are looking for someone to contribute to the optimisation of the surface chemistry related to capturing these biomolecules.

#### Profile:

- You are a 'Master (bio)chemistry or (bio)engineering' or 'Master industrial sciences (bio)chemistry' or 'Professional bachelor in biochemical, biotechnological lab techniques' or equivalent.
- You can perform experiments in a reliable and precise way.
- You can interpret results and propose improvements to protocols.
- You can write accurate technical reports summarising your experiments.
- You have a sense for responsibility, can work independently and are eager to learn.
- You are a team player with good communication skills.
- Experience with SPR or ELISA is a plus, but not a requirement.

#### Offer:

- A job where you perform challenging experiments in collaboration with other researchers.
- A modern work environment where you can contribute to interesting research projects using novel, newly developed equipment.
- A young and dynamic team.
- An attractive salary with competitive extra-legal benefits.

#### Contact:

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