# Process Engineer – Assistant Process Engineer

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

The research group photonics 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. To support this research the group has vacancies for a process engineer and an assistant process engineer.

## Process engineer

### Job description

As a process engineer you are responsible for the realization of advanced photonic IC's, which are designed and characterized within the research group:

- You are responsible for carrying a number of processes such as lithography and metallization. You improve these processes and provide feedback towards the researchers involved.
- You are responsible for a advanced processing equipment and the introduction of new equipment. You act as contact person for the users of this equipment, are responsible for the preventive maintenance and optimize the processes running on this equipment
- You are responsible for the introduction and development of new processes.

### Profile:

- You have a master in Electronics, Electromechanics or Chemistry
- You have experience in processing microphotonics or electronics devices
- Strong interest in scientific research
- Following a training period you are able to carry out, improve and fully develop complex technological processes for realizing microelectronic and optoelectronic chips.
- Good communication skills in English
- Willingness to follow additional training in photonics, nanophotonics and microelectronic technologies

## Assistent process engineer

### Job description

As an assistant process engineer you support the realization of advanced photonic IC's which are designed and characterized within the research group:

- You carry out a number of processes such as lithography and metallization. You provide feedback towards the researchers involved.
- You are co-responsible for a number of process tools. You act as the contact point for the users of this equipment and are responsible for the preventive maintenance. You optimize the processes running on these tools.
- You support the introduction of new processes and generate new ideas.

### Profile:

- You have a Bachelor in Electronics, Electromechanics or Chemistry
- You have experience in processing microphotonics or electronics devices
- You have an interest in scientific research

- Following a training period you can independently carry out a series of complex technological processes
- Good communication skills in English
- Willingness to follow additional training in photonics, nanophotonics and microelectronic technologies

## Offer:

We offer a job in a young, dynamic and high tech research environment with international recognition. We are located in the direct neighborhood of Ghent, one of Europe's most vibrant young cities.

## Contact:

Prof. D. Van Thourhout – dries.vanthourhout@ugent.be - http://photonics.intec.ugent.be

Interested candidates can send their CV and statement of purpose directly to (before 1 April 2015):

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