

Job Title:	Internship - Software Engineer	Duration:	Min 6 weeks availability from mid-Aug-Sept 2021
Department/Group:	Innovation	Job Code/ Req#:	SoftEng / 001
Location:	Melle, Ghent, Belgium	Travel Required:	No or very limited
Level/Salary Range:	Not paid	Position Type:	Full time
HR Contact:	Pieter de Backer	Date posted:	2021-04-21
Will Train Applicant(s):	Yes	Posting Expires:	2021-07-01

Applications Accepted By:

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Subject Line: ORIS Recruiting: Internship - Software Engineer

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ORSI Academy

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Job Description



Prostate cancer is the most common male cancer and a major cause of morbidity and mortality in Western Europe.

If diagnosed in time, a cure can be obtained by surgically removing the prostate gland.

This is often done using robotic assistance as care needs to be taken not to injure neurovascular structures which lie closely to the prostate.

Our group at the ORSI INNOTECH is developing assistive technology that helps the surgeon

decrease risk to damaging these structures while maximizing the oncological outcome. We look at how models can help predict surgical margins and how patient-specific imaging can help in this process.

Job Description: You are interested in state-of-the-art software development visualizing patient-specific prostate anatomy in a **3D virtual environment**. This software facilitates surgical planning and will use **deep learning techniques** to facilitate automated model development. You will learn how to make and visualize **3D models**, present them effectively and **interpret surgical papers**. You will collaborate with clinicians and engineers. In case you already have 3D visualization knowledge, you will be able to progress further during this internship.

What we Expect: Come to work every day ready to be the best you can be and save lives. Be passionate about (y)our products and engineering innovations. Lead by example. Roll up your sleeves and get stuff done. Expect the same from everyone on the team.

Requirements:

- Finished Bachelor of Science in informatics, computer science, engineering physics, electrotechnical or electromechanical engineering
- Working knowledge of Python
- Interested in Surgical Data Science

Nice to have:

- Knowledge of Anatomical Segmentation (3DSlicer, Mimics, Simpleware, D2P)
- Knowledge of 3D visualization and manipulation is a plus (Netfabb, Autodesk, ...)
- Knowledge of deep learning frameworks
- Knowledge of medical jargon

ORSI INNOTECH description

When integrated, surgical training and technological innovation will yield the highest possible level of surgical care.

To drive this concept, **ORSI INNOTECH wants to create a new paradigm for translational research in innovative surgical technologies.**

Experts support our INNOTECH activities with backgrounds in (veterinary) medicine, biology, chemistry, mechanical and software

engineering and/or physics.

We use the latest surgical and software technologies on the market.

We operate in an open, creative, fast-paced environment that emphasizes teamwork. We are located in Melle close to Ghent (Belgium) in a very cool office staffed with bright and engaging co-workers.

ORSI is an Equal Opportunity Employer.

To find out more about ORSI and ORSI INNOTECH, please visit our website at <https://www.orsi-online.com>