Robotics Research Engineer
(Leuven or Lommel or Kortrijk)

As a robotics research engineer, you develop control strategies for assembly and explore the opportunities offered by the “state of the art” of robot & cobot applications.

Companies aspiring to transition to Industry 4.0 collaborate with Flanders Make to develop their smart factory production systems where robots can work safely alongside humans. We design and develop prototype workcells for production systems.

Develop novel robot applications for industry 4.0 workcells

As an expert in robot control, you:
- Work together in a research team which combines expertise in software architectures, controls, sensing, and layout of workcells;
- Work with the team you address “assembly” challenges for real industry cases. The operator will be supported by cobots (KUKA LBR iiwa, ...), mobile robots (KUKA KMR iiwa, ...), two-armed robots (ABB Yumi, ...), logistic robots and AGVs (for transporting goods and pallets), etc.;
- Take the lead in the control of the robots.

More concretely, you:
- Explore the state of the art in collaborative robot applications: propose on pushing the state of the art such that it benefits the industry by improving the current solutions in terms of flexibility, productivity and safety;
- Specify and develop the online or realtime control strategy for the robots and cobots (position control; force control, impedance control), for component handling and gripping applications (suction cup, magnetic grabber, gripping hand…);
- Test and improve the operational functionalities (sensors, software, control strategies …).

Research oriented robot programming enthusiast

You have:
- A master or PhD in a relevant domain;
- Preferably 5 years of experience in research or industry;
- Reliable expertise in robot control;
- Experience in writing high quality code in C++ and Java and a good feel for Robot Programming;
- Affinity with simulations and modelling of robots (or production environments);
- A keen interest in machine assembly.
You are:

- Passionate about research and new technologies;
- Result oriented, responsible, self-directing;
- Open minded;
- Pro-active and taking initiative;
- Eager to learn.

Working with experts

- Flanders Make offers you the opportunity to develop yourself in a network of top industry players, universities and research institutes;
- An energetic, flexible and challenging working environment;
- A warm and open-minded atmosphere;
- Top colleagues that are expert in their domains opening doors for fruitful collaborations and learning;
- An attractive salary with fringe benefits;
- Depending on your place of residence or preference, you can work on one of our sites (flexible workplace policy).

Flanders Make

*Flanders Make* is the strategic research centre for the manufacturing industry. From our sites in *Lommel*, *Leuven* and *Kortrijk*, we stimulate open innovation through excellent research.

Our purpose: realising a top-level research network in Flanders that delivers full support to the innovation projects of manufacturing companies. This way, we want to contribute to new products and production processes that help to realise the vehicles, machines and factories of the future.

Because of our unique position between industry and research, our teams combine application and system proficiency with technological and scientific knowledge.

We focus on 4 key competences, all based on **modelling and virtualisation**:

1. Decision & Control
2. Design and optimisation
3. Motion product specification, architecture, and validation
4. Flexible assembly specification, architecture, and validation

This animation movie illustrates how Flanders Make sees operators functioning in the factory of the future, working side by side with cobots, and autonomous mobile robots.

[https://www.youtube.com/watch?v=HHSAhXoaVKU](https://www.youtube.com/watch?v=HHSAhXoaVKU)

Take a look at our research and our projects:

How to apply:
To apply, go to [http://jobs.flandersmake.be](http://jobs.flandersmake.be).
Please fill in the online application form and upload a motivation letter and cv.