Senior researcher dynamic systems & control

You develop advanced controllers for smart and interconnected systems (machines, robots and vehicles).

Develop advanced model predictive, learning and robust adaptive control algorithms

- Set up research projects in advanced control technologies and;
- tackle challenges in multi-context adaptive control, robust control, learning control, control of systems of systems, interconnected systems,…;
- for a wide range of industrial applications (e.g. collaborative robot, autonomous vehicle, forklift, weaving machine, agricultural robot, 3D printer, suspension in a car, hybrid drivetrain…).

As an expert in dynamic systems & control, you:
- Question the industry challenges;
- Set up a dynamic model of the plant system and propose a control strategy (system approach);
- Develop and implement the new controller (Matlab, Simulink, C++);
- Validate the results in cooperation with validation engineers;
- Work in a multidisciplinary team (sensing, actuation, validation…).

Experienced engineers will also coach young researchers and lead projects.

Profile

You have:
- A Master or PhD in Control Engineering or another relevant domain (Mechanical, Electronical, Electrical, Automotive, Modelling & Simulation, Mechatronics, Robotics, …);
- Strong theoretical background in the field of modelling, simulation and control;
- Practical experience in at least two advanced control technologies on dynamical systems;
- Track record in research (in academy or industry) where you applied theoretical concepts on practical case problems.

You are:
- An expert user of modeling software (Matlab, Simulink);
- A conceptual thinker inspired by research problems and technological innovation;
- A good listener and communicator who can build sustainable relationships;
- Pro-active and taking initiative;
- Enthusiastic about developing new project ideas;
- Open minded and a team player.
Creative flexible work environment

- 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).

Stand key in solving high tech challenges
Examples of Flanders Make projects:
Movie SITcontrol: https://www.youtube.com/watch?v=t7AB3xM1bn4
Movie iCOMPOSE : https://www.youtube.com/watch?v=Ek0wgkpD6gM

Develop pre-competitive technological research and yourself

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

How to apply :
To apply, go to http://jobs.flandersmake.be, please fill in the online application form. Also upload a motivation letter and cv.