Design & Test Engineer

With a top-notch test infrastructure, you offer companies a taste in the latest technologies to strengthen their production process.

Flanders Make researchers are developing technologies for design and production of high-performant, flexible and autonomous machines and vehicles.

- Rethinking the drivetrain setups in machines, robots or vehicles
- Improving quality and speed of additive manufacturing machines
- Validating the gluing process in challenging adhesive joints

New solutions are tested on our demonstration and validation infrastructure in controlled conditions.

Improve automotive/industrial machine performance and production processes

For different production processes and mechatronic applications, you:
- Work in a team, where you focus on the design of prototype/demonstrators and on the construction of test setups.
  - Use, expand and manage the test setups, working closely together with technology experts in different domains (sensing, control, software architecture, software integration, automation, robotics, vehicle dynamics and/or laser/optics, adhesive bonding, additive manufacturing, testing,…).

More concretely, you will:
- Organize virtual and experimental tests;
  - Define the test plan of research projects together with the project team and take the lead to define the specification, architecture, validation aspects;
  - Create and adapt virtual models before experimental tests;
  - Formulate the requirements for new equipment or software needed;
  - The Instrument the hardware for experimental tests.
- Analyse the testdata together with the team
- Scope what we can do
  - You know your infrastructure and identify the scope and timing of the research solutions we can offer to companies;
  - Detect opportunities for new business.
- Technically coordinate the infrastructure
  - Adjust infrastructure for new research needs;
  - Ensure that all equipment and infrastructure functions safely and optimally at all times.
“I will rebuild the machine or part and do all necessary tests to show that the concept works. **I ensure that the tests are carried out, but I am also involved in designing and setting up the testplan.** … For me, a technical job with a lot of variety is ideal. One moment you sit together with someone who builds cars, the other moment with someone who makes windmills, or copiers.” (Koen V., Design & Test Engineer since 2007 @ Flanders Make)


**Hands-on Technical Researcher**

You have:

- A master’s degree in Engineering (Industrial, Mechanical, Electrical, Mechatronics, Material, Power electronics,…);
- At least 3 years of relevant experience in an academic or industrial environment, preferably in mechatronic or mechanical machine design or in production process design, in instrumentation and testing, sensors (vision systems, temperature sensors,..) and actuators;
- A strong interest in different production processes and mechatronic applications;
- Affinity with the technological domain of Flanders Make’s research infrastructure;
- Domain-specific expertise is a big plus;
- Experience in a safety critical test environment is also a plus;
- Ability to get acquainted easily with different software packages. Daily use of mechanical design packages.

You are:

- Inspired by technological innovation;
- Eager to broaden your knowledge about other domains and new manufacturing processes;
- Pro-active and taking initiative;
- Result-driven;
- A professional communicator in English;
- Hands-on, making your hands dirty in the lab is a pleasure;
- Open minded and a team player.

**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

Flanders Make colleagues work together on projects in Belgium at site Lommel and at site Leuven (flexible workplace policy). Depending on the location of the infrastructure, and your place of residence, you will work in our offices in Lommel or in Leuven.

Example video of the development of demonstrators: https://www.youtube.com/watch?v=Rv1ynbcTc-0&feature=share

Convinced? Send your motivation letter and cv

Which part of our infrastructure appeals to you the most? Do you feel you can contribute to our research with your expertise? Do you share our values and our mission? We are looking forward to reading about your story, your interest for Flanders Make and for our infrastructure.

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