System engineer for research of mechatronic systems

Being the architect of the machine of the future, you investigate new modelling methodologies for the interdisciplinary mechatronic design to support the systems engineers in high tech companies.

Function

Your tasks in the research area around model-based mechatronic system engineering are:

- creating simulation models of complex mechatronic systems (e.g. hybrid drivelines) with new technologies;
- to describe and link the requirements, functions, working principles and concrete components of mechatronic systems in formal design models;
- to use the developed models to create optimal mechatronic systems for the high tech companies;
- to present the results of the research to the companies and on seminars and conferences.

You will work in a team and report to the site manager.

Profile

Researcher & System Architect with a broad interest in mechatronic systems:

- PhD or Master's degree in Engineering with a first experience in research (IT, System, Mechanical, Electrical, Control,…); 
- Strong in conceptual reasoning and you can derive generic concepts based on concrete industrial design problems; 
- Broad interest and knowledge of the involved disciplines in mechatronic engineering (Requirements, System, Mechanical, Electrical, Control, Software, Safety, Testing, PLE) and you know what it takes to create a production-ready mechatronic design. This allows you to communicate fluently with engineers from different backgrounds. 
- Knowledge of modeling languages/tools that are used to coordinate multi-disciplinary mechatronic design processes (UML/SysML, Architecture Description Languages, PLM tools, requirement management tools); 
- Experience with Matlab, Simulink and software for multi physical modeling (f.i. Matlab/SimScape or LMS Imagine.Lab Amesim).

You are

- Passionate by research and new technologies with focus on applications for machines or mechatronic systems of the companies; 
- Result oriented and responsible; 
- Open minded, a good communicator and a team player.
Offer

Flanders Make gives you the opportunity to develop pre-competitive research within a unique domain in Flanders, together with Flemish top players and on an international level.

Flanders Make offers you a competitive salary with fringe benefits.

The assignment is in Belgium at Flanders Make, site Leuven.

How to apply

Please send your motivation letter and cv to: humanresources@flandersmake.be