

Electrical Development Engineer (1,0 FTE)

Business overview

Micro Turbine Technology BV (MTT) (www.mtt-eu.com) is an innovative company located in Eindhoven. MTT develops micro gas turbines for various applications, currently focused on the development and commercialization of the EnerTwin (www.enertwin.com) - a micro Combined Heat and Power (μ CHP) system.

Job specification

As an Electrical Development Engineer, you will be responsible for the development, testing and integration of hardware and software solutions for controlling a μ CHP system. The job consists of:

- electronics/software design for new applications and for existing products (Life Cycle Management); specification, design, testing, qualification and integration of the electromechanical micro gas turbine subcomponents (high-speed generator, power inverters, control)
- contact with supply partners; defining specifications and monitoring the supply of the electrical and electromechanical components for the μ CHP system
- implementation of solutions for the system compliance with respect to safety, performance and EMC norms as well as international grid standards for the connection of micro-generators
- taking roles in EU and national R&D projects
- troubleshooting (fault diagnosis) of electrical systems and laboratory equipment (software and hardware)
- maintaining and improving of embedded controller software
- development of test/pass-off programs in LabVIEW and/or C/C++

Profile

- communicative and team player
- self-reliant: capable to independently define and execute tasks
- proactive
- reliable and dependable
- language: English; ability to communicate in Dutch is a plus

Professional qualifications

Engineering:

- Control system design, development and implementation of digital controllers
- Digital signal processing and communication protocols
- Power converters, electrical machines and drives, digital and analogue electrical circuits - modelling, design, assembly
- Testing and laboratory measurements
- (Embedded) C/C++

Software:

- Numerical computing (MATLAB/Simulink, Scilab/Xcos, Octave)
- National Instruments LabVIEW
- Source code version control

Education and experience

- Electrical Engineering / Mechatronics / Computer Science
- Knowledge of power electronics and control
- 3+ or more years of relevant work experience

What we offer

An exciting job focused on developing solutions for efficient and cost-effective micro turbines and combined heat and power systems. You will work in a team of very enthusiastic colleagues and you will experience a great variety of activities and engineering disciplines. MTT offers excellent development prospects in the high-tech engineering world, coupled with a competing salary and benefits package. Find more general information on www.mtt-eu.com or send your resume to info@mtt-eu.com. Specific information can also be obtained from Luc Hamilton +31 6 53417018.