



Research engineer in Control (M/F)

Location : *Rennes (35), France*
Web site : <http://www.fr.mitsubishielectric-rce.eu/>
Job reference: *PES_PERM_032019*
Contract : *permanent*

Context and description:

MITSUBISHI ELECTRIC is one of the leading manufacturers of power electronics related products such as power devices, inverters for motor drives. As MITSUBISHI ELECTRIC Group's subsidiary, MITSUBISHI ELECTRIC R&D CENTRE EUROPE includes a research division specialised in power electronics and its application to renewable energy systems and power electronic products.

The research team is located in Rennes (France – Bretagne [35]) and is looking for a research engineer with expertise in **health and condition monitoring of components and systems**, with the following duties:

- Conducting **research** in the domain of health and condition monitoring, pattern recognition and lifetime estimation, preferably applied to packaging and power electronic components.
- In **conjunction** with academic partners, **developing precise diagnostic and prognostic methods** applied to converters in real applications.

Education and experience required:

- **PhD degree on any subject linked to control** of (preferably) power converters or machines.
- **At least 3 or 4 years of experience (including PhD degree) within the field of control**, preferably power-electronics related, through a public or private R&D laboratory (industrial experience is a plus).
- **Expertise in system control and optimisation**, particularly soft computing (machine learning, neural networks, fuzzy logic etc.), optionally applied to power electronic or mechatronic systems or components

- Basic knowledge of any of the topics of converter stress and reliability, power electronic packaging and associated experimental procedures
- Familiarity with real-time control systems and LABVIEW
- Familiarity with simulation tools such as PSIM, MATLAB/Simulink, FEM Analysis

Personal profile:

- Ability to work across multiple tasks methodically and efficiently and meet committed schedules
- Motivated to work in **dynamic environment** and adaptable to changes in priority
- Excellent **communication** and interpersonal skills: ability of sharing information with team players (must show evidences of team-working)
- **Fluent English**
- Availability for frequent business trips abroad

Contact:

Magali BRANCHEREAU (HR Manager),

Thanks to send your CV and motivation letter in PDF format by email (in object: your name + the reference PES_PERM_032019) to: jobs@fr.mercedeem.com