

Research Scientist Medical Power Electronics

Job ID: 71916
City, Country: Eindhoven, Netherlands

Organization:

Philips Research is the source of many advanced developments in Healthcare, Lifestyle and Lighting. Building on 90 years' experience in industrial research and our world-leading patent position, we're dedicated to meaningful innovations. In the healthcare domain, we are enhancing imaging and monitoring systems, as well as exploring innovative personal healthcare. In lifestyle, we're helping people see, hear, remember and share content, anywhere and anytime. Our vision focuses on simplicity, making technology an integral – but invisible – part of everyday life.

Philips is among of the world leaders in medical imaging systems. High resolution computational tomography and magnetic resonance scanner play a key role in prevention, diagnosis and therapy of many diseases. Future extensions of the capabilities of these systems improve the diagnostic and therapeutic application and allow better, easier-to-use and affordable medical care of people.

Department Description:

The department Solid State Lighting (SSL) addresses primarily technologies for LED-lighting systems. It is also the home of the capability cluster of energy conversion technologies of Philips Research. We carry out fundamental and applied research on system concepts and power conversion modules for all applications. These include high-power high-frequency converters for X-ray generators, gradient amplifiers, their digital control systems, power technologies for solid-state-lighting, renewable energies, and building power systems.

Your Responsibilities:

As a research scientist you create innovative medical power conversion systems, including high voltage generators, gradient amplifiers, and their control.

You will be supported by your research colleagues as well as your internal partners from product development and will acquire and maintain a thorough understanding of the essential needs of world class medical systems, both from an application as well as a technology point of view.

Part of your work will be continuous scouting of technologies in your personal fields of expertise, which are relevant for the application area, as well as establishing and maintaining good customer relationships.

Your Profile:

- Experience or solid background in power electronics and one or several of the following fields:
 - High power resonant converters
 - Magnetic design
 - Analog Electronics and circuit simulation (e.g. Pspice or LTSpice, Matlab Simulink/PLECS)
- Experience in digital electronics (FPGA) and/or μ C programming is welcome
- Practical experience in building and testing of electronic circuits
- Background in system engineering and power converters
- Motivation to work inter-disciplinary and application-oriented
- High communication skills, good team-player in a customer-focused project team

The work will be executed mainly in Eindhoven, with some part of the activities being also located in Aachen, Germany.

Information: www.philips.com/careers

HR: anje.schoonbaert@philips.com

SSL: peter.luerkens@philips.com
(+49 172 238 5473)



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