EMC Engineer

A.D.A.M SA seeks to appoint an

Electrical Engineer for EMC

A.D.A.M SA (Applications of Detector and Accelerators to Medicine) is working on the R&D and production of accelerators for medical applications. It is a research company, inspired by CERN and a subsidiary of Advanced Oncotherapy plc. A.D.A.M SA is head-quartered in Meyrin/Switzerland and its laboratories are based at CERN. A.D.A.M SA is involved in a hadron cancer-therapy project to build the linear proton accelerator LIGHT (Linac for Image Guided Hadron Therapy). LIGHT's proton energies range from 70 MeV to 230 MeV and its beam properties are ideally suited for the effective treatment of cancerous tumors. We are aiming to provide a clinically superior and cost-effective alternative to conventional radiation therapy solution, ensuring that clinicians and patients have choices, and that proton therapy is available more widely. More information on A.D.A.M. SA can be found on **www.adam-geneva.com** and **www.avoplc.com**.

A.D.A.M. SA Power Converters group is seeking a talented Electrical Engineer with experience in Electromagnetic Compatibility, for the characterization of accelerator electrical and electronics systems, design and optimize cabling and shielding systems, review and tailor EMI/EMC requirements to meet product performances, design electronic test-benches, etc.

This is a 3-year contract and depending on the research and development programme of the Company, the role may become permanent in the future.

Job Description

Responsibilities and tasks

- Debug EMC/EMI problems and work into EMC compliance of accelerator systems.
- Review and tailor EMC/EMI requirements to meet medical standards requirements.
- Carry out immunity tests and emission measurements campaigns.
- Write technical documentation.
- Support the Power Converter Group in the operation, testing and commissioning of power converters.

Qualifications

- Master's degree or PhD in Electrical Engineering or equivalent.
- Knowledge of international EMC regulation standards (CISPR, IEC/EN) and test and measurement methods.
- Hands-on experience with EMC test equipment/chambers.
- Experience in EMC debug techniques and emissions and immunity testing.
- Good level of spoken and written English with the ability to draw up technical texts.
- Ability to work in a multidisciplinary team.

Desirable

- Previous experience in accelerators or medical applications.
- Experience performing high frequency measurements.
- Experience in analogue circuit simulations and transient analysis (ESD).
- Electromagnetics design and simulation.
- Experience using Xilinx FPGA software.

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What we offer

- a competitive salary and contribution to healthcare costs
- 24 days holiday plus the CERN closing days (approx. 6 days per year)
- career progression through training, development and attendance at conferences
- a friendly, international working environment with experts in their field
- the chance to be at the cutting-edge of proton therapy research

Information

For further information please contact: f.cabaleiro@avo-adam.com

Applications

Interested candidates should submit:

- a cover letter
- a curriculum vitae,
- a Master's or PhD degree certificate or equivalent in a relevant field
- at a minimum, the names of 2 referees, or two letters of recommendation, and/or employment certificate/s
- any other relevant certificates,

by email to the HR Administrator, Sabrina Lagrimosa: sabrina.lagrimosa@avo-adam.com

For full consideration, applications should be sent by email before December 14th, 2018 to: sabrina.lagrimosa@avo-adam.com

The position will remain open until filled and all qualified individuals are encouraged to apply.