The NU-RISE is a University of Aveiro spin-off based at IEUA and plans to increase the number of employees for the Pro-dose project - a system for dosimetry in radiation therapy for breast cancer and prostate cancer. The company is seeking to recruit:

Electronics Engineer (or similar) **(M/F)**

Workplace:
Aveiro, Portugal

Keywords:
Scintillating fiber optic radiation detectors, silicon photomultipliers, dosimeter, radiotherapy, medical devices, microcontrollers, FPGA, analog and digital electronics, ADCs, PCB design;

Summary:
This position is for an entry to mid-level individual who has an electronics engineering background. Position entails the development, design and characterization of new products for the optics and radiation detection product line. The engineer will be responsible for managing the project from concept to finished product.

Essential Job Functions include the following, but are not limited to:

- Participate in the development and characterization of measuring instruments and electronic equipment for medical and radiation
- Make analysis and specifications, and product concept development;
- Make the technical interface between the company and research teams at the University of Aveiro and the IPO-Porto;
- Participation in R&D activities
- Participation in prototype calibration tasks in hospitals (IPO-Porto).
- Assists drafting, lab testing, manufacturing, quality, and planning as required.
- Perform liaison function between engineering team and all manufacturing operations for any related issues, problems, or improvements.
- Prepare technical data such as qualification test procedures, acceptance test procedures, reports, component maintenance manuals, etc.
- Interact with vendors and purchasers concerning supplied and proposed components.
- Acts as technical expert for the company for both internal and external customers.
- Responsible for entire product life cycle.
- Responsible for identifying problems, and providing solutions for manufacturing issues relating to newly released products, as well as established production work-flow.
- Development and characterization of measuring instruments and electronic equipment for medical application and radiation detection;

Qualifications

Experience:

- Some industry experience or related coursework in the field of optics and photonics

Education:

- Graduate or Master in Electronics Engineering or similar

Specialized Knowledge and Skills:

- Experience with laboratory instrumentation such as function generators, oscilloscopes, network analyzers, and logic analyzers
- Strong sense of ownership and work ethic, written and verbal communication skills
- Proven expertise in troubleshooting and resolving electronic issues in instruments
- Experience with Mixed Signal PCB design
- Experience in analog and digital electronics, signal amplifiers design and signal acquisition (ADCs), etc;
- Strong project Management skills with a deep sense of ownership
- Strong ability to take initiative
- Demonstrated innovation
- Good knowledge in analog and digital electronics, signal amplifiers design, signal acquisition (ADCs), photodetectors, etc .;
- Flexibility/adaptability to work well independently and as part of a team in a fast-paced, dynamic environment and growth environment
- Ability to multitask, prioritize, set and meet project deadlines
- Strong attention to detail.
- Availability to travel.
- Excellent communication skills in English
- Experience with microcontroller circuits, microprocessors and FPGAs
- Knowledge base for programming microcontrollers, microprocessors and FPGAs
- Good programming skills (e.g. Matlab, Phython, C #, etc)
- Sense of responsibility and competence in the area of communication, teamwork and under pressure

Is considered a bonus:

- Experience with high-speed JESD204B based A/D converters and/or other high-speed serial transfer protocols.
- Experience with implementation and optimization of Image processing algorithms in FPGA logic.
- Familiarity with digital circuit design and Boolean logic

Workplace:
Aveiro, Portugal

To apply:
To apply, send Letter of Interest and detailed CV to jobs@nu-rise.pt using the job reference NRHR-201710-04 as subject.