Job Specification :: Software Engineer :: Web / Mobile / Telemedicine

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Company profile

Neuromod Devices Ltd. (‘Neuromod’) is a venture-backed Irish medical device developer of a neuromodulation-based treatment of tinnitus, a debilitating condition commonly known as ‘ringing in the ears’. Tinnitus constitutes a significant unmet clinical need, affecting up to 1% of the global population and for which there are no proven effective treatments. Neuromod has recently begun the commercial roll-out of their CE-marked Lenire tinnitus treatment technology, following the successful conclusion of international multi-site phase II clinical trials. The company is now seeking to expand its R&D department to work on software and hardware development for current and new medical device products that combine auditory stimulation, nerve stimulation, wireless communications and physiological sensing technologies.

The company provides its engineers with a stimulating working environment and opportunities to work on a variety of commercial and research projects as part of a small, motivated, cross-functional team.

Position overview

The successful candidate will aid in the development of software solutions supporting the commercial roll-out of the Lenire tinnitus treatment technology. Specifically, they will use web technologies to support telemedicine scenarios including device configuration, remote patient assessment, monitoring and engagement.

They will gain exposure to a range of technologies at the forefront of biomedical research and several phases of the product development life-cycle from initial concept work through to commercial release. Their efforts will contribute directly to relieving the suffering of the many millions of people worldwide whose lives are adversely affected by chronic tinnitus.

Key responsibilities

Working with Neuromod’s software team to design, implement and verify the web-based fitting and configuration software for the Lenire tinnitus treatment device.

Completion of the software aspects of product testing, including reliability validation and performance testing.

Integration of Neuromod Devices products with 3rd-party clinical audiology software systems.
Supporting effective design and technology transfer from development to manufacturing.

**Primary skills / experience**

Experience of frontend development (typescript/javascript and/or related technologies).

Software development experience (requirements elicitation, design, source control, TDD/BDD, verification).

Competency in one or more scripting languages (e.g. Python).

**Secondary skills / experience**

Familiarity with application deployment on AWS infrastructure.

DSP algorithm development and implementation.

Familiarity with Bluetooth (Classic and/or BLE).

Interest in build automation, continuous integration and associated back-end infrastructure.

**Competencies / personal attributes**

Problem-solving mindset.

Enthusiasm for the application and expansion of existing skillsets in the pursuit of new avenues of R&D.

**Application process**

Trinity Employability Award participants who have successfully passed Level 2 of the award programme will be notified by email and invited to submit an application for this internship position.

When invited, please send a CV and cover letter with subject line ‘Trinity Employability Award Intern Application’ to Emma Meade at emma.meade@neuromoddevices.com before 5pm, Monday 30th November.