**Electrical Engineer – Electronics and System Design**
**LOCATION: Bedford, MA**

Come join us!

Vivonics, Inc. is a biomedical engineering technology development firm that is creating innovative technologies that improve human health and performance and advancing those technologies from the initial concept to viable products.

**POSITION DESCRIPTION**

The Electrical Engineer will design and implement electronics and firmware designs of novel physiological monitoring systems for medical and human performance monitoring applications. In this role, you will partner with the Principal Investigators and Project Managers to translate concepts and requirements into a technical approach and realized design.

In this position, you will be responsible for:

- Working with multidisciplinary teams to deliver device solutions for use in clinical research and commercial applications
- Creating device system architecture and conducting the design, prototyping, verification, and realization of Vivonics hardware systems and individual components, including design reviews
- Producing the design documentation in compliance with Vivonics Quality Management System
- Participating in meetings, demo and presentations with team members and sponsors and communicating ideas and engineering concepts to all disciplines
- Contributing technical inputs to project proposals and project planning
- Helping in the preparation of monthly and quarterly technical reports
- Domestic travel required (5%)

**BASIC QUALIFICATIONS**

- BS or MS in Electrical Engineering (EE), Systems Engineering, or Biomedical Engineering with EE minor
- 2+ years of relevant electronics design work experience
- Experience with biometric and physiological sensors and data acquisition systems
- Excellent written and verbal communication skills

**ADDITIONAL DESIRABLE SKILLS AND REQUIREMENTS**

- Experience with circuit design, simulation, schematic capture and overseeing PCB layouts for low-power miniaturized analog and digital systems and DC power control circuitry.
- Experience with PCB layout (CircuitStudio/Altium preferred)
- Experience designing PCB assembly test fixtures, test methods, and design verification plans
- Experience with programming languages such as C/C++, MATLAB, and LabVIEW
- Experience developing embedded firmware
- Experience with near-infrared (NIRS) and optical-based systems
- Experience integrating Bluetooth, Bluetooth LE, Ultra-wide Band, and NFC, for data communication
- Familiarity with Mechanical CAD (SolidWorks or Onshape preferred)
- Experience managing noise and maintaining signal integrity
- Experience with medical product development under ISO 13485, ISO 14971, ISO 62304, ISO 60601 and FDA QSR.

To be considered for this opportunity, please send your resume to **resumes@vivonics.com.**

*Vivonics is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.*

**Principals only. No recruiters please.**