Electrical Engineering Internship Opportunity –
Bluetooth Low Energy Transceiver Design for a Glucose Monitor

Company Description

Pacific Diabetes Technologies is a local startup company focused on the development of next-generation technologies for the management of diabetes. PDT is commercializing the world’s first intelligent infusion set, an insulin pump accessory that incorporates insulin delivery and glucose monitoring in a single device. Our proprietary design combines flexible printed circuitry with traditional amperometric sensor technology to deliver a low cost, high performance advance in the state of the art for diabetes care. We have raised over $1.6M in order to develop and test our device in animal studies. You’ll join a talented team composed of multiple collaborating engineers and physician scientists in the exciting, creative environment of the Portland State Business Accelerator.

Position Summary

We are presently seeking a hard-working, motivated individual with entrepreneurial spirit with a focus in embedded systems or low power transceiver design to support development of the sensor module. You will assist in prototyping of the sensor module, including design, layout, prototyping, test, and debug. The device reads sensor currents, digitizes the signal, and transmits sensor data to a smart device. The design will require integration of a nanopower analog interface, programming and energy minimization of an ARM Cortex M0 microcontroller, a Bluetooth low energy radio, and Bluetooth application software on Smart Devices. Knowledge of 3D mechanical design tools would be a plus.

Responsibilities

Support electronic development of the sensor module, including electronic design, layout, and prototyping to microcontroller firmware and smart phone programming.

Qualifications

- Pursuing B.S. degree or higher in electrical engineering
- Electronic prototyping and debug experience
- Experience with schematic capture and board layout tools
- Experience in at least one of the following areas:
  - Microcontroller programming
  - Low power radio (Bluetooth preferred)
  - Android application development experience

This is a part-time position. Compensation depends upon level of experience. Applicant must be self-motivated, entrepreneurially inclined, and able to learn quickly.

Email a one paragraph “elevator pitch” to careers@pacificdt.com explaining in just a few sentences why you’re the ideal person for the job!

Resumes reviewed by invitation only