

Neurava Inc. is a medical device company located in West Lafayette, IN aimed to help patients with uncontrolled epilepsy take back control of their lives. SUDEP, or sudden unexpected death in epilepsy, is a terrible risk faced by 65 million people worldwide and nearly 3.5 million Americans. With nearly 4,000 deaths occurring each year from SUDEP, 101,000 years of potential life are lost annually, which is second only to stroke. There is currently no device on the market that monitors SUDEP risk. To tackle this unmet need, Neurava is developing N1, the first-of-its-kind SUDEP risk detection device and algorithm. This non-invasive, patent-pending, wearable device will monitor key physiological signals for dysfunctions associated with SUDEP and provide a fundamental peace of mind to epilepsy patients and those that care for them.

Through the Interns for Indiana program, Neurava is hiring 2022 summer internships for 3 positions: 1) hardware/firmware engineer, 2) algorithm engineer, and 3) business analyst. The interns will have the opportunity and experience of working at a medical device startup and playing a key role in its success. The program is open to all undergraduate students with a 2.8 GPA or higher. Graduate students are not eligible to participate.

The hardware/firmware engineering intern will work on integrating fully developed sensors with the microcontroller on the motherboard circuit board. The intern will work with Neurava's partner Mechanical Design and Engineering team at iO Life Sciences, 3M and its manufacturing partner Marian Inc., to integrate these circuits into N1's wearable form factor that will be tested on human patients.

The algorithm engineering intern will work on developing and validating a dysfunction detection algorithm using signal processing and ML-techniques, based on clinical data collected in humans and from animal models.

The business analyst intern will focus on key business elements of a medical device startup, including customer discovery, where the intern will conduct interviews with potential stakeholders to understand their needs, wants, and pains. The intern will also develop and optimize sales and marketing strategies.

To apply for an internship, submit an application [here](#). If you have any questions, please visit <https://www.opp.purdue.edu/our-programs/Interns-For-Indiana> or contact Jay Shah at jay@neurava.org.