

Applicant: Electro Standards Laboratory, Inc.

Knowledge Partner: Dr. Noah S. Philip, MD and Dr. van't Wout-Frank, Providence VA Medical Center.

Location: Cranston

Industry: Technology, Controls and Data Communications

Recommended Funding: \$49,875

Innovation Project: **Electro Standards Laboratory** will work with physicians and researchers at the Providence VA to develop an industry first, closed-loop noninvasive system to treat Post-Traumatic Stress Disorder (PTSD). This project will produce data on skin conductance and heart rate that the company will use to create an electronic device with an intelligent control algorithm that can apply a patient-specific, appropriate dose of stimulation to treat the disorder in real time. This approach will enable automatic and immediate treatment of PTSD symptoms and automatically adapt stimulation to the individual subject, having a significant impact on PTSD treatments and opening the door to treatment for other neurological disorders.