Ability Lab REU
Research Experience for Undergraduate
Summer 2018

Wearable sensing to improve therapy and hand function for children with cerebral palsy

Are you interested in using innovative technology to evaluate hand function in clinical practice?

This study is a collaboration between University of Washington’s Ability & Innovation Lab and Seattle Children’s Hospital. We are using accelerometry and electromyography data to quantify the effects of a common therapy for children with cerebral palsy: Constraint Induced Movement Therapy (CIMT). This study is a unique translational project between engineering and rehabilitation; we work directly with the Occupational Therapists who deliver CIMT to integrate this study into clinical care. We have an opening for one undergraduate student to assist with data collection during spring, summer, and fall quarters. Summer REU students receive a $5000 stipend and are expected to work 40 hours/week for 10 weeks. The time commitment in the spring and fall will be 5-10 hours/week with hourly pay.

Requirements:

• University of Washington undergraduate in engineering.
• Ability to work closely with a multidisciplinary team, including kids with cerebral palsy, their families, therapists, doctors, and engineers.
• Excellent written and verbal communication skills.
• Highly organized and detail-oriented.
• Experience loading and analyzing data with Matlab, Python, or similar programming languages.
• Familiarity or interest in wearable sensors.
• Emphasis on translation of research between engineering and clinical care.

Please apply at: https://careers-seattlechildrens.icims.com/jobs/26410/clinical-res-assoc-i/job

DEADLINE: March 2nd 2018

Any questions should be sent to Brianna Goodwin at goodwb@uw.edu.