

Faculty of Science and Health

FACULTY RESEARCH COMMITTEE



Undergraduate Summer Research Internship Scheme 2017

Project Title: The development of a robotic exoskeleton based rehabilitation service within DCU.

Principal Investigator: Mr. Enda Whyte.

School/Research Centre: School of Health and Human Performance

Project Description

The Sports Medicine Research Cluster at DCU seeks an Undergraduate Summer Intern to research, develop and investigate the feasibility of a robotic exoskeleton based rehabilitation service in DCU. Robotic exoskeletons can be used to rehabilitate patients with significant neurological injuries and diseases such as spinal cord injuries, stroke, cerebral palsy and multiple sclerosis. This pioneering rehabilitation device may facilitate the recovery of patients from these life changing conditions. The development of this service in DCU represents an opportunity to provide a service to patients and also to research the effects of robotic exoskeleton based rehabilitation. It is important that this novel service is planned and developed to maximize patient use and the development of a research pathway. This research project aims to assist in the development and implementation of a rehabilitation service using the robotic exoskeleton incorporating a research pathway.

Principle Duties and Responsibilities

Under the supervision of the Principal Investigator, the Intern will:

- Engage in appropriate training as required
- Work as part of the Sports Medicine Cluster research team
- Collect and organize existing data as required
- Research suitable models of service provision and research pathways
- Assist with piloting of the service plan
- Write reports on preliminary findings
- Carry out administrative work associated with the project as necessary

- Assist in the development of summary findings and presentation thereof