



Cutting-edge
workshops
and labs



www.torontorehab.com
416-597-3422



Groundbreaking rehabilitation research deserves a one-of-a-kind environment, where researchers and industry work together to find practical and marketable solutions to the real-world challenges faced by people with disabilities and age-related conditions.

iDAPT's Mechanical, Electrical and Rapid-Prototyping Workshops offer just that.

Located in the heart of Toronto's Discovery District, iDAPT's cutting-edge design studio, workshops and labs provide a unique collaborative research environment where the need for technology can be explored, a product can be designed, prototyped and studied, and clinical testing can be organized seamlessly and efficiently.

Research and Design Studio

The Research and Design Studio is where inventions are conceived and the designs are conceptualized. Researchers and students from engineering, industrial design, clinical, architectural and other backgrounds collaborate in this workspace that emphasizes creative computer graphics and concept modelling. The studio is equipped with sophisticated computer-aided design (CAD) workstations, printers/plotters, exhibit and modelling space and an integrated team meeting space.

Rapid Prototyping Workshop

Prototypes are manufactured with unprecedented speed, function, sophistication and style in this hi-tech workshop using the largest stereolithography machine in Canada. This rapid prototyping capability equips scientists with the ability to quickly and accurately manufacture small quantities of products for validation testing and impact measurement in the living, working and learning environments.

Mechanical Workshop

The Mechanical Workshop is equipped with the latest computer-controlled machine tools including ultra-high precision five-axis milling. These tools are used to construct the instruments needed for research and the prototypes of the assistive device inventions. Anticipated products include new multidirectional powered wheelchairs with sophisticated seating and balancing systems, walking aids, fall prevention devices, communication aids and systems for transferring and repositioning patients.

Electronics Workshop

As almost all of our research requires the design and construction of electronics, the ability to design and produce high quality miniature circuit boards is integral to the success of iDAPT. The Electronics Workshop is equipped with a full range of instruments to support computer-aided design and automated fabrication of circuitboards.

Research collaboration made easy

iDAPT embraces collaboration and welcomes industry as partners in developing meaningful products, interventions and technologies to help make life more livable for the millions of people affected by disability.

Our network of senior scientists includes members from clinical disciplines (medicine, surgery, physiotherapy, occupational therapy, nursing, speech-language pathology, audiology and optometry) and research disciplines (biomedical engineering, computer science, neuroscience, kinesiology, industrial design, epidemiology, social science and others) from across Canada and throughout the world. And because Toronto Rehab is affiliated with the University of Toronto and a host of other academic and research institutions, we have access to students - the next generation of researchers and clinicians - eager to learn and obtain practical experience.

For more information and to find out how to join the iDAPT community at Toronto Rehab, please contact Dayle Levine, iDAPT Project Manager, at 416-597-3422, ext. 7602 or email: levine.dayle@torontorehab.on.ca. Visit us online at www.torontorehab.com.

iDAPT is Toronto Rehab's \$36 million initiative to develop one of the world's most advanced rehabilitation research facilities where new therapies and assistive technologies will be developed for older people and those living with disabling injury or illness.