

Research staff and model client at the NMRL performing a test.

## Over 50 Years of Shaping Health and Human Performance

The University of Pittsburgh School of Health and Rehabilitation Sciences (SHRS) is dedicated to transforming cutting-edge scientific discovery on assistive technologies into real-world impact. We offer industry partners a variety of research services, clinical trial support, licensing opportunities and practical applications, ensuring seamless collaboration from lab to market.

**BOLD IDEAS. BOLD BREAKTHROUGHS. BOLD IMPACT.**

### The Office of Commercial Translation at SHRS

Our office focuses on increasing and reinforcing our school's already high level of commercial translation by working closely with investigators and external partners to support licensing and funding opportunities to complement our efforts in research and innovation.

#### Innovation, Licensing and Commercialization

- Access to groundbreaking university innovations
- IP development and tech transfer support
- Strategic industry partnerships locally and nationally

#### Product Evaluation

- Focus groups to confirm minimum value proposition, market opportunity
- Performance testing on assistive technology products

#### Clinical Trials and Research Services

Expertise in:

- Behavioral Health
- Communication Science Disorders
- Physical Therapy
- Occupational Therapy
- Orthotics & Prosthetics
- Rehabilitation Technology
- Sports Medicine
- Emergency Medicine
- Advanced data analysis
- Human performance testing
- Regulatory compliance support for FDA Q-submission

# Featured SHRS Labs

# Partner with Pitt

The School of Health and Rehabilitation Sciences promotes research and interdisciplinary collaboration across SHRS' [nine departments](#) with a focus on developing new technologies and solutions. Here is a sampling of SHRS research labs.

- [Health and Explainable AI Lab \(HexAI\)](#) - Making health care better through the power of explainable artificial intelligence (AI).
- [Health and Rehabilitation Informatics Lab](#) - Implementing an interdisciplinary approach to research by focusing on three specific areas: Digital Health, Health Data Science and Artificial Intelligence and Health Information Technology Accessibility.
- [Physical Therapy-Clinical and Translational Research Center \(PT-CTRC\)](#) - Providing consistent, high quality physical-performance testing and rehabilitation services and equipment to clinical and translational researchers.
- [Neuromuscular Research Lab/Warrior Human Performance Research Center \(NMRL\)](#) - Focusing on human performance optimization research. Offering the country's first fully customized mobile research vehicle to perform world-class assessment of physical performance, bone imaging, musculoskeletal health, and biospecimen collection/analysis.
- [Healthy Home Lab \(HHL\)](#) - Incorporating engineering, medicine, public health and rehabilitation health, bringing the best science into home settings to maximize human health and support independent living safely.
- [Health Services Research Laboratory](#) - Exploring patients' health care access, care delivery and outcomes across the care continuum. Enhancing the dissemination and implementation of evidence into real-world practice.
- [Language and Brain Lab](#) - Researching how people understand and produce words and sentences rapidly and effortlessly, and how that process is impaired following brain damage in aphasia.



[Click here](#) or scan the QR code to learn more about the SHRS centers and labs and what makes their work extraordinary.





## Licensed Technologies

SHRS is developing a range of innovative technologies to promote holistic health, independence and community participation.

- **Assistive Technologies:** Devices and systems designed to support mobility, communication and daily living activities.
- **Rehabilitation Engineering:** Advanced solutions for physical therapy and rehabilitation to improve patient outcomes.
- **SmartTech Implementation:** Devices and systems designed to support mobility, communication and daily living activities using smart technology and AI.

### [Curb Ramp Measurement System \(CurbMET\) for Inspection and ADA Compliance](#)



Licensee: Pathway Accessible Solutions (pathVu)

A state-of-the art curb-ramp design and inspection system to collect, store and display curb ramp and sidewalk data in communities, with a goal to streamline curb-ramp designs and enhance accessibility.

### [Functional Mobility Assessment \(FMA\)](#)



Licensee: VGM Group

A tool which measures a consumer's ability to function while using mobility equipment such as walkers, wheelchairs or prosthetic/orthotic devices. The assessment helps clinicians to measure patient satisfaction and their ability to complete daily living activities quickly and accurately.

### [imHealthy App: A comprehensive Health Status Assessment System for Everyone](#)



Licensee: Neighborhood Resilience Project

The mobile app evaluates an individual's overall well-being in multiple life areas, providing data to health care providers for personalized care and offering insights into community wellness needs.

### [Rear-facing Wheelchair Passenger Station](#)

Licensee: Valeda Company

A station within a large accessible transit vehicle for wheelchair users, enabling secure, independent travel. The station provides passive rear-facing and lateral barriers to prevent wheelchair movement during normal and emergency operations, complying with ADA standards.



**More technologies listed on the following page.**

## Telehealth Usability Questionnaire (TUQ)\*



Licensee: *Eli Lilly*

A comprehensive questionnaire to evaluate telehealth usability factors –such as usefulness, interface and interaction quality, ease of use, learnability, reliability, satisfaction, and future use. These attributes are essential in assessing computer-based telehealth technologies.

## mHealth App Usability Questionnaire (MAUQ)\*



Licensee: *Eli Lilly*

A survey instrument to measure usability of mobile health apps with unique versions for different purposes: Standalone patient, standalone provider, interactive patient, interactive provider. By using the tool, users can measure the usability of their apps, which can guide them to choose or update their apps.



[Click here](#) or scan the QR code for descriptions of innovative SHRS technologies available for licensing.

## Virtual Wheelchair Coach\*



Licensee: *United Spinal Association*

A smartphone app providing timely, step-by-step information for wheelchair users to support obtaining a wheelchair, learning how to use and maintain it, and to share wheelchair users' reviews and comments. The goal is to empower wheelchair users with knowledge and information to: 1) request health care providers and wheelchair suppliers to provide quality services; and 2) facilitate wheelchair users to use wheelchairs independently, efficiently, safely and healthily.

## ISWP Wheelchair Service and Provision Resources and Intermediate Testing and Mentoring Program\*



Licensee: *International Society of Wheelchair Professionals*

The Wheelchair Service Provision Basic and Intermediate Tests, based on the WHO Wheelchair Service Training Packages Basic Level (WSTP-b), Intermediate Level (WSTP-i) and other evidence-based resources, are designed to test the knowledge of personnel who provide manual wheelchairs. The Intermediate test focuses on wheelchairs and cushions for children and adults who need additional postural support to sit upright. The mentoring program supports wheelchair service providers as they prepare to take the Intermediate Test.

\*Non-exclusive license.

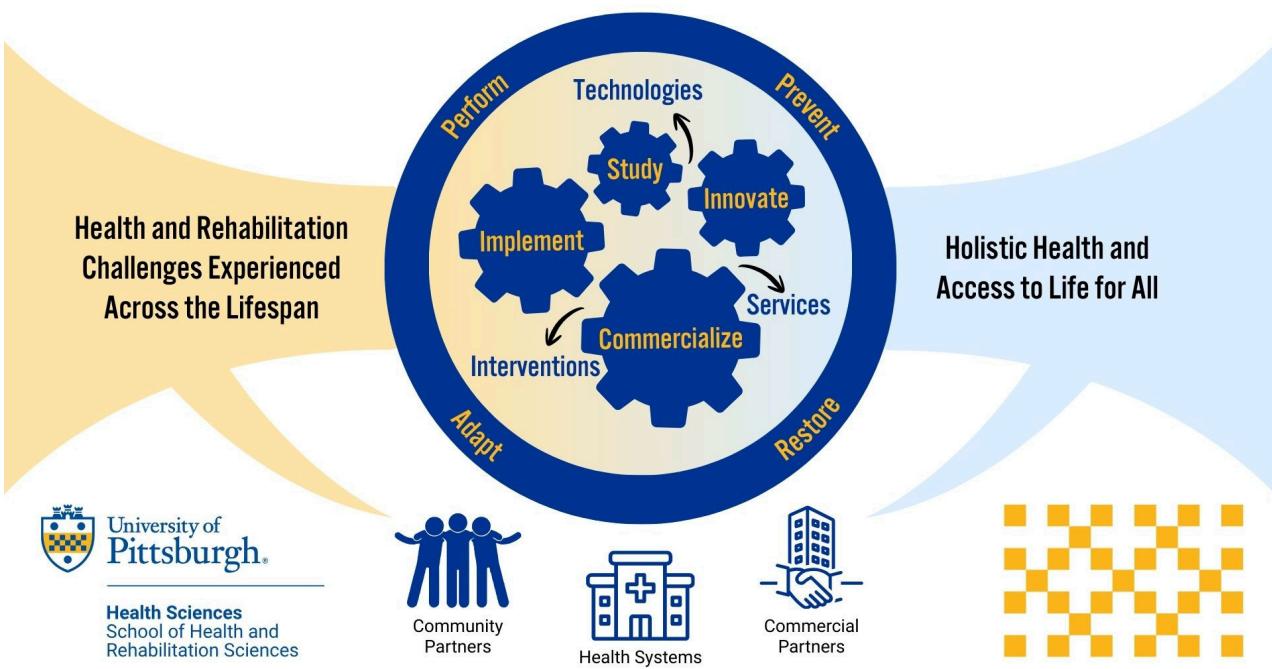
# What Sets SHRS Apart

# Partner with Pitt

## Collaborators



## Research Model



## Academic, Clinical and Research Excellence

#3

In  
Occupational  
Therapy

#5

In  
Speech-  
Language  
Pathology

#5

In  
Audiology

#9

In  
Physical  
Therapy

Source: U.S. News and World Report

For Licensing Interest  
or Industry Partnership Contact:

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