Shirley Ryan AbilityLab
Research Trials & Studies

Assistive Device Study

Learning and Evaluating Assistive Device Control with Autonomous Corrections

The Shirley Ryan Ability Lab is conducting a research study that will investigate a new approach for providing assistance for controlling an assistive device with limited interfaces for motor-impaired individuals.

We need participants with no history of neuromotor impairments or any other conditions that affect arm, shoulder or upper trunk mobility.

Your participation will be used to evaluate whether this approach can improve the control of assistive devices such as robotic arms by spinal cord injured individuals.

Participants in this study will:

- Control a robotic arm, robotic powered wheelchair, or simulation using a different input devices (e.g. joystick, sip and puff straw, or switches) to perform common daily manipulation or navigation tasks.
- Answer questionnaires about the study.

For more information, please contact

Mahdieh Nejati Javaremi at **mjavaremi@sralab.org** or
Deepak Gopinath at **dgopinath@sralab.org**

Participants must meet the following criteria:

- **Ages 18 and up**
- **Able to give informed signed consent**

Participants will receive an hourly stipend.

The study length will be 1-2 sessions lasting approximately 1-2 hours each.

IRB Project #: STU00211758
Principal Investigator: Brenna Argall, PhD
The Shirley Ryan AbilityLab is an academic affiliate of Northwestern University Feinberg School of Medicine.