A post-doctoral position in robotics is available in the Reasoning and Learning Lab at the Center for Intelligent Machines (CIM) of McGill University, for a new project targeting the collaborative control of an intelligent wheelchair. The project is funded by the newly announced AGE-WELL initiative: http://www.agewell-nce.ca/

The project aims to develop and assess collaborative control systems allowing a driver to share control of the power wheelchair with an intelligent control agent, with the intent of allowing aging drivers to safely and effectively control power mobility devices despite physical, perceptual or cognitive limitations due to aging. The project builds on the existing hardware and software infrastructure of the SmartWheeler project (http://cs.mcgill.ca/~smartwheeler/).

Research areas: Candidates should have expertise in robotics, preferably in one or more of planning and control, AI and machine learning, assistive robotics, human-robot interaction, active perception, and integrated systems.

Qualifications: We seek candidates with a PhD in computer science or engineering, enthusiasm for research, evidence of creativity and initiative, strong publication record in top-tier robotics conferences and journals, solid programming skills, large robotics project experience, demonstrated leadership, and excellent communication skills (English, oral & written). An interest in commercialization and technology transfer activities is a definite asset.

Responsibilities: The candidate will be responsible for leading a research project on the development, validation and pre-commercialization of a prototype system for collaborative control of a robotic wheelchair. Other responsibilities include supervision of junior students, collaboration with partner institutions (primarily UBC and U. of Toronto).

Expected duration: 24 months, preferably starting September 1 2015.

Applications: Send application material (pdf only), including your CV, 1-page motivation letter, research statement, 3 representative papers, and contact information for 3 references, to Prof. Joelle Pineau (jpineau@cs.mcgill.ca).

Deadline: The position will remain open until filled. We will start reviewing files as soon as they arrive, with full consideration given to candidates who apply by July 1 2015.

McGill University (http://www.mcgill.ca/) is a world-class research-intensive university located in Montreal, Canada. The Center for Intelligent Machines (http://www.cim.mcgill.ca/), founded in 1985, is one of the leading robotics research centers. Its mission is to excel in the field of intelligent systems, stressing basic research, technology development and education. The Reasoning and Learning Lab (http://rl.cs.mcgill.ca/) is broadly concerned with the study of probabilistic systems, and is the home of the SmartWheeler project, a multi-disciplinary initiative to build a state-of-the-art robotic wheelchair (http://cs.mcgill.ca/~smartwheeler/). The candidate will also have an opportunity to participate in the activities of the NSERC Canadian FieldRobotics Network (http://ncfrn.mcgill.ca/).