**UQ Summer 2018/2019 Research Project Description**

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| **Project title:** | **Healthy Ageing and Neurorehabilitation** |
| **Project duration:** | 10 weeks |
| **Description:** | The scholar will join the UQ Centre for Neurorehabilitation, Ageing and Balance (NAB) Research, based within the School of Health and Rehabilitation Sciences, and have opportunities to contribute to several projects. The Centre for NAB Research is a core member of the newly formed (June 2018) QUEX ‘**Re**trofit living **F**or ageing well through **U**nderstanding and **R**edesign of **B**uilt environments (ReFURB)’ consortium. This international consortium represents an exciting joint research initiative between The University of Queensland and University of Exeter (UK), which seeks to explore cutting-edge solutions to safe living, active ageing and well-being, and develop innovative approaches to building infrastructure and environmental design, which bring about health benefits. The scholar will be responsible for leading research scoping activities (e.g. literature/systematic reviews, evidence searches, identifying funding schemes) to support the Consortium’s short- and long-term objectives. The scholar will also assist with other ongoing projects led by academic staff within the Centre, including clinical trials investigating novel footwear devices to improve balance and gait in clinical groups (e.g. diabetic peripheral neuropathy, multiple sclerosis) and physical activity monitoring in people with neurological disease (e.g. Parkinson’s disease).  |
| **Expected outcomes and deliverables:** | The scholar will gain deeper understanding of current trends within the ‘healthy ageing’ arena, by undertaking scoping activities across a unique and broad range of disciplines (e.g. design engineering, psychology, geography). Through the scholar’s involvement with the QUEX ‘ReFURB’ Consortium, they will develop an understanding of global collaborations (which include academics, industry partners, patients/public), advanced administrative and leadership processes. The scholar’s contribution to a range of laboratory- and hospital-based research projects will also extend their ability to perform rigorous clinical and functional assessments of older people, adults with neurological and metabolic diseases. The scholar will develop skills in data collection, management, processing and analysis and receive training in the use of biomechanical equipment (e.g. activity monitors, force platforms, electronic walkway system, 3D Motion Capture). The scholar will also have the opportunity to contribute to journal publications and conference presentations. |
| **Suitable for:** | The project is open to applications from Year 2 and Year 3 Physiotherapy students, who have a keen interest in healthy ageing, neurological rehabilitation, biomechanics, human movement and physical activity. |
| **Primary Supervisor:** | Dr Anna HattonProfessor Sandy Brauer |
| **Further info:** | Two position available.Dr Anna Hattona.hatton1@uq.edu.au Tel: 3365 4590Professor Sandy Brauers.brauer@uq.edu.au Tel: 3365 2317 |