



EMILY RAE GLEESON

Citizenship: Canada

Proposed Program: Aerospace Engineering at Ryerson University

Ms. Gleeson will use her fellowship to study technology needed to facilitate space exploration beyond the immediate vicinity of the Earth. In particular, she will investigate the development, simulation and testing of advanced autonomous navigation techniques between multiple spacecraft. This work is an essential step in developing sustainable, affordable and productive space exploration using on-orbit self-assembling large space structures and has been identified by the International Space Exploration Coordination Group as a necessary technology for the future of deep space exploration. Ms. Gleeson is also pursuing aerospace in her extracurricular activities as a team member for the development and construction of a pair of cubesats planned for launch in early 2019. Ms. Gleeson has always dreamed of being an astronaut and her long-term goals are to pursue an academic position where, in addition to research, she can help other women entering STEM fields. She enjoys a variety of sports and backcountry camping and has helped with Women's Network and United Way event planning and fundraising.