



Examples of Current/Previous Research Placement Fields/Projects

<p style="text-align: center;"><b><u>Biology:</u></b></p> <ul style="list-style-type: none"> <li>• Microbiology</li> <li>• Molecular Biology</li> <li>• Animal Biology &amp; Pathology (Veterinary Medicine)</li> <li>• Marine Biology</li> <li>• Virology</li> </ul>	<p style="text-align: center;"><b><u>Chemistry/Biochemistry:</u></b></p> <ul style="list-style-type: none"> <li>• Computational Chemistry (Medicinal, Environmental, etc.)</li> <li>• Biochemistry</li> <li>• Pharmacology</li> <li>• Chemical Engineering (Gas Hydrates)</li> </ul>
<p style="text-align: center;"><b><u>Health &amp; Medical Sciences:</u></b></p> <ul style="list-style-type: none"> <li>• Nutrition/Nutrigenomics</li> <li>• Exploring the Links Between Cannabis Usage &amp; Schizophrenia</li> <li>• Molecular Genetics</li> <li>• Neurodegenerative Diseases – Alzheimer’s/Parkinson’s/Dementia</li> <li>• Pediatric Neurological Conditions – Autism/ASD</li> <li>• Nanotechnology</li> <li>• Biomedical Engineering – Prosthetic Devices</li> <li>• Naturopathic Medicine &amp; Integrative Cancer Care</li> <li>• Immunology</li> <li>• Oncology</li> <li>• Pediatrics</li> <li>• Cardiology</li> <li>• Global Health</li> <li>• Public Health</li> </ul>	<p style="text-align: center;"><b><u>Physics:</u></b></p> <ul style="list-style-type: none"> <li>• Quantum Physics/Quantum Mechanics (Loophole-free Bell Tests)</li> <li>• Particle Physics</li> <li>• Astrophysics</li> </ul>
	<p style="text-align: center;"><b><u>Space &amp; Earth Sciences:</u></b></p> <ul style="list-style-type: none"> <li>• Aerospace Engineering</li> <li>• Geophysics</li> <li>• Astrophysics - Black holes</li> </ul>
<p style="text-align: center;"><b><u>Environmental Sciences:</u></b></p> <ul style="list-style-type: none"> <li>• Aquatic Toxicology</li> <li>• Fresh Water Ecology</li> <li>• Climate Change &amp; Canadian Health Policy</li> </ul>	<p style="text-align: center;"><b><u>Mathematics:</u></b></p> <ul style="list-style-type: none"> <li>• Discrete Math</li> <li>• Math Cryptography</li> <li>• Algorithms</li> <li>• Graph Theory</li> </ul>
<p style="text-align: center;"><b><u>Computer Science:</u></b></p> <ul style="list-style-type: none"> <li>• Data Analysis</li> <li>• Machine Learning</li> <li>• Artificial Intelligence/Neural Networks</li> <li>• Computer Programming and Robotics</li> <li>• Software Engineering</li> <li>• Speech Recognition Software – Adapting for Dysarthria/Speech Impairment Conditions</li> <li>• High Performance Computing (Big Data)</li> </ul>	<p style="text-align: center;"><b><u>Technology/Engineering:</u></b></p> <ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Electrical Engineering</li> <li>• Nuclear Engineering</li> <li>• Wireless Technology</li> <li>• Blockchain Technology</li> <li>• Unmanned Drone Safety/Policy</li> <li>• Nanotechnology</li> <li>• Nuclear Waste Management</li> </ul>



<p style="text-align: center;"><b><u>Social Sciences – Psychology, Sociology &amp; Anthropology:</u></b></p> <ul style="list-style-type: none"> <li>• Psychology &amp; Neurobiology of Depression</li> <li>• Social Psychology</li> <li>• Psychosocial Oncology</li> <li>• Pediatric Suicide &amp; Mental Health</li> <li>• Socio-cognitive Psychology - Human Morality</li> <li>• Psychology &amp; Sociology of the Appreciation of Modern Art</li> </ul>	<p style="text-align: center;"><b><u>Social Sciences – Geography &amp; History:</u></b></p> <ul style="list-style-type: none"> <li>• Geomatics/GIS</li> <li>• History &amp; Development of Bullet-Resistant Materials</li> <li>• Indigenous Health History - Analysis of the Working Conditions of Indigenous Uranium Miners and Transporters in the 1940's</li> </ul>
<p style="text-align: center;"><b><u>Social Sciences – Political Science, Social Justice/Human Rights, Law, Women's Studies, Criminology, etc.:</u></b></p> <ul style="list-style-type: none"> <li>• NGO-isation and the Plight of Women in Developing Nations</li> <li>• Global Health Policy &amp; International Law</li> <li>• Human Rights Education</li> <li>• Role of Latent Fingerprint Analysis and Policy in Wrongful Convictions</li> <li>• Criminology/Forensic Science</li> <li>• Health Law Policy - Canadian Health Law and Physicians' Right to Refuse Physician-Assisted Suicide</li> </ul>	<p style="text-align: center;"><b><u>Social Sciences/Business – Economics, Marketing, Business, etc.:</u></b></p> <ul style="list-style-type: none"> <li>• Economics – City Planning</li> <li>• Economics – Prisoner's Dilemma</li> <li>• Comparison and Benefits of Employee Wellness Programs</li> <li>• Actuarial Science &amp; Policy – Analysis of life insurance in Canada, exploring issues related to companies expanding into the insurance industry</li> </ul>
<p style="text-align: center;"><b><u>Arts &amp; Humanities – Languages, Art &amp; Design, etc.:</u></b></p> <ul style="list-style-type: none"> <li>• Effects of Space &amp; Design on Emotional Well-being</li> <li>• Effects of Bilingualism and Musical Training on Dementia Prevention</li> <li>• Appreciation of Modern Art (also listed under Psychology/Sociology)</li> </ul>	<p style="text-align: center;"><b><u>Interdisciplinary Studies:</u></b></p> <ul style="list-style-type: none"> <li>• Food Security Issues in Northern Indigenous Communities</li> <li>• Effects of Spirituality and Meditation on Cancer/Chronic Pain Patients</li> <li>• Computer Science/Behavioural Psychology/Education – Programming of Robot to Support Needs of Autistic/ASD Youth based on Educational Framework, Science Education Research</li> </ul>
<p style="text-align: center;"><b><u>Innovation/Entrepreneurship</u></b></p> <ul style="list-style-type: none"> <li>• Nanotechnology Research, Product Innovation &amp; Startups</li> <li>• Software Engineering &amp; App Development (Business and Engineering)</li> <li>• Blockchain Technology, Applications &amp; Effects</li> </ul>	<p><b><u>N.B.:</u></b> This list does not include all past and current placements and topics studied/researched through the Online Research Co-op Program. It is to provide insight into the diversity and accessibility of placement options and considerations. Please note that it is also not an exhaustive list of available placement topics.</p>