

## Appendix

### Additional quantum technology research areas of interest to Canadian partners.

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Canadian Space Agency	<ul style="list-style-type: none"><li>• Space-based remote sensing - Earth observation (atmospheric sciences, etc)</li></ul>
Primary Contact: Éric Vachon, <a href="mailto:eric.vachon2@canada.ca">eric.vachon2@canada.ca</a>	<ul style="list-style-type: none"><li>• Planetary exploration and space-based astronomy (Moon, Mars and other celestial bodies) - sensing</li><li>• Space-based communications including Quantum Key Distribution</li><li>• Human spaceflight - Space life sciences including medical technologies</li><li>• Spacecraft technologies (navigation, guidance and control, etc)</li></ul>
Communications Security Establishment	<ul style="list-style-type: none"><li>• Cryptanalysis of quantum-resistant algorithms</li><li>• Quantum computing and quantum algorithms – focused on implications to security of quantum-resistant algorithms</li></ul>
Primary Contact: Martin Fontaine, <a href="mailto:martin.fontaine@cse-cst.gc.ca">martin.fontaine@cse-cst.gc.ca</a>	<ul style="list-style-type: none"><li>• Quantum secure communications – including network integration and standardization</li></ul>
Defence Research and Development Canada	<ul style="list-style-type: none"><li>• Quantum-based magnetometry including superconducting devices/filters and colour-centres in diamond</li></ul>
Primary Contact: Aimee Gunther, <a href="mailto:aimee.gunther@forces.gc.ca">aimee.gunther@forces.gc.ca</a>	<ul style="list-style-type: none"><li>• Quantum-enhanced position, navigation, and timing technologies – atomic clocks, frequency combs, accelerometers, and gravimeters</li><li>• Quantum LIDAR and computational imaging</li><li>• Quantum radar and remote sensing – including space-based – in the visible and microwave</li><li>• CBRNE (Chemical, Biological, Radiological, Nuclear, Explosive) and stand-off detection</li><li>• Quantum communication for quantum networks</li></ul>

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