

**STATEMENTS OF MERIT CRITERIA AND CONDITIONS OF EMPLOYMENT FOR ENG-04**

<b>Field of activity: Project Management</b>	<b>Field of activity: Systems Engineering</b>	<b>Field of activity: Operations Engineering</b>
<p><b>ESSENTIAL QUALIFICATIONS (GENERIC)</b></p> <ol style="list-style-type: none"> <li>1. Bachelor degree, recognized in Canada, in an engineering discipline relevant to the duties of the position considered, such as but not limited to: Aerospace, Chemical, Civil, Computer, Electrical, Industrial, Mechanical, Systems.</li> <li>2. Experience in evaluating, analyzing and solving engineering or operations problems and in making recommendations. (116)</li> <li>3. Experience in dealing with technical and management staff of contractor firms and other parties. (132)</li> <li>4. Ability to lead working groups</li> <li>5. Capacité à communiquer efficacement oralement.</li> <li>6. Capacité à communiquer efficacement par écrit.</li> <li>7. Team Work</li> <li>8. Initiate and adapt to change</li> <li>9. Execute work</li> <li>10. Respect of values and ethics</li> <li>11. Know and serve client well</li> </ol>	<p><b>ESSENTIAL QUALIFICATIONS (GENERIC)</b></p> <ol style="list-style-type: none"> <li>1. Bachelor degree, recognized in Canada, in an engineering discipline relevant to the duties of the position considered, such as but not limited to: Aerospace, Chemical, Civil, Computer, Electrical, Industrial, Mechanical, Systems.</li> <li>2. Experience in evaluating, analyzing and solving engineering or operations problems and in making recommendations. (116)</li> <li>3. Experience in dealing with technical and management staff of contractor firms and other parties. (132)</li> <li>4. Ability to lead working groups</li> <li>5. Capacité à communiquer efficacement oralement.</li> <li>6. Capacité à communiquer efficacement par écrit.</li> <li>7. Team Work</li> <li>8. Initiate and adapt to change</li> <li>9. Execute work</li> <li>10. Respect of values and ethics</li> <li>11. Know and serve client well</li> </ol>	<p><b>ESSENTIAL QUALIFICATIONS (GENERIC)</b></p> <ol style="list-style-type: none"> <li>1. Bachelor degree, recognized in Canada, in an engineering discipline relevant to the duties of the position considered, such as but not limited to: Aerospace, Chemical, Civil, Computer, Electrical, Industrial, Mechanical, Systems.</li> <li>2. Experience in evaluating, analyzing and solving engineering or operations problems and in making recommendations. (116)</li> <li>3. Experience in dealing with technical and management staff of contractor firms and other parties. (132)</li> <li>4. Ability to lead working groups</li> <li>5. Capacité à communiquer efficacement oralement.</li> <li>6. Capacité à communiquer efficacement par écrit.</li> <li>7. Team Work</li> <li>8. Initiate and adapt to change</li> <li>9. Execute work</li> <li>10. Respect of values and ethics</li> <li>11. Know and serve client well</li> </ol>

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<b>Field of activity: Project Management</b>	<b>Field of activity: Systems Engineering</b>	<b>Field of activity: Operations Engineering</b>
<p><b>ESSENTIAL QUALIFICATIONS (POSITION SPECIFIC: PROJECT MNGT)</b></p> <ol style="list-style-type: none"> <li>1. Various language profiles: BBB/BBB , BBC/BBC, CBC/CBC, CCC/CCC, English essential</li> <li>2. Experience in the implementation and coordination of projects (230)</li> <li>3. Knowledge of principles and practices related to Project Management.</li> <li>4. Experience in project contract management, including the assessment of the work of contractors. (133)</li> <li>5. Experience in using cost and schedule management software (such as Primavera, Project Scheduling PS7, or Microsoft project). (250)</li> <li>6. Experience in using project risk evaluation techniques. (152)</li> <li>7. Ability to co-ordinate technical reviews or program evaluations</li> </ol>	<p><b>ESSENTIAL QUALIFICATIONS (POSITION SPECIFIC: SE)</b></p> <ol style="list-style-type: none"> <li>1. Various language profiles: BBB/BBB , BBC/BBC, CBC/CBC, CCC/CCC, English essential</li> <li>2. Experience in working on space projects in an engineering capacity. (231)</li> <li>3. Knowledge of space mission life cycle</li> <li>4. Knowledge of space systems engineering standards and practices.</li> <li>5. Ability to analyze and recommend resolution of complex engineering problems.</li> </ol>	<p><b>ESSENTIAL QUALIFICATIONS (POSITION SPECIFIC: OE)</b></p> <ol style="list-style-type: none"> <li>1. Various language profiles: BBB/BBB , BBC/BBC, CBC/CBC, CCC/CCC, English essential</li> <li>2. Experience in the application of engineering techniques, practices, processes and procedures. (232)</li> <li>3. Knowledge of theories and practices of aerospace hardware and software development, verification, validation and operation.</li> <li>4. Experience in working in an international co-operative program. (117)</li> <li>5. Ability to assesses/evaluate project proposals</li> <li>6. Experience in an operation environment. (233)</li> </ol> <p><b>POSITION SPECIFIC: Flight controller and Mission planner</b>  <b>ESSENTIAL QUALIFICATIONS of OE Above (1-6) plus</b></p> <ol style="list-style-type: none"> <li>7. Experience in using tools and processes during Real-time mission Support. (138)</li> </ol>

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		<p><b>POSITION SPECIFIC: Flight controller</b>  <b>ESSENTIAL QUALIFICATIONS Above (1-7) plus</b></p> <p>8. Experience in preparing Mission Operations plans and procedures. (137)</p> <p><b>POSITION SPECIFIC: <i>Ground Segment</i></b>  <b>ESSENTIAL QUALIFICATIONS of OE (1-6) plus )</b></p> <p>9. Experience in developing Software application or database to support operational facilities. (139)</p>

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<b>Field of activity: Project Management</b>	<b>Field of activity: Systems Engineering</b>	<b>Field of activity: Operations Engineering</b>
<p><b>ASSET: QUALIFICATIONS</b></p> <ol style="list-style-type: none"> <li>1. Formal training in Project Management obtained at university or given by Federal Departments, or any other applicable training in Project Management, or a recognized project management certification.</li> <li>2. Experience with SAP financial system. (234)</li> <li>3. Work experience in project or program management, including cost and schedule control in projects in which federal departments such as Treasury Board, Public Works and Government Services, Department of National Defense or other federal departments have been the customers or partner. (Experience of Government processes) (235)</li> <li>4. Experience in working in an international co-operative program. (236)</li> <li>5. Knowledge of policies and guidelines in federal departments governing project management, such as Treasury Board, Public Works and Government Services and Department of National Defense or other federal departments.</li> <li>6. Knowledge of Remote Sensing or Earth Observation satellite systems.</li> <li>7. Knowledge in telecommunication or telecommunication satellite systems.</li> </ol>	<p><b>ASSET: QUALIFICATIONS</b></p> <ol style="list-style-type: none"> <li>1. Post-graduate degree in an applicable engineering or science discipline, from a recognized university in Canada.</li> <li>2. Experience in working on space projects as a System Engineer. (237)</li> <li>3. Good engineering experience in a particular Space Mission Life-Cycle phase (Definition, Design, Development, and Operations) directly relevant to the duties of the position. (238)</li> <li>4. Good engineering experience in a particular type of Space Mission (Communications, Earth Observation, Science) directly relevant to the duties of the position. (239)</li> <li>5. Good experience in a space Specialty Engineering (Electrical, Mechanical, Software, etc.) directly relevant to the duties of the position. (240)</li> <li>6. Experience in a space Engineering Discipline interfacing with Systems Engineering (Safety and Mission Assurance, Production, Project Management, etc.) (135)</li> <li>7. Experience in working in space Industry or in other Space agencies. (136)</li> </ol>	<p><b>ASSET: QUALIFICATIONS</b></p> <ol style="list-style-type: none"> <li>1. Post-graduate degree in an applicable engineering or science discipline, from a recognized university in Canada.</li> <li>2. Experience with relevant operations planning SW. (140)</li> <li>3. Knowledge of applicable standards and administrative procedures in particular those of space agencies (such as NASA).</li> <li>4. Knowledge of MSS operation principles, including operational modes and flight rules.</li> <li>5. Knowledge of technical fields such as dynamics, mechanical systems, and human machine interface.</li> <li>6. Experience in robotic systems. (141)</li> <li>7. Knowledge of national and international industries and organizations involved in the space fields.</li> <li>8. Ability to communicate in science or engineering, in particular to produce related papers.</li> <li>9. Experience working with MSS flight software and flight products, including reconfiguration files and mission databases. (143)</li> </ol>

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<b>Field of activity: Project Management</b>	<b>Field of activity: Systems Engineering</b>	<b>Field of activity: Operations Engineering</b>
<p>8. Knowledge of sciences and space exploration or of scientific satellites systems or space exploration.</p> <p>9. Knowledge of national and international industries and organizations involved in the space fields.</p> <p>10. Knowledge of the Canadian Space Program and of the Canadian Space Agency objectives, programs and structure.</p> <p>11. Establish and manage partnership</p> <p>12. Experience in project risk analysis and management. (160)</p>	<p>8. Experience in working in an international co-operative program. (241)</p>	<p>10. Knowledge of the MSS design, architecture, and internal and external interfaces, functional performance capabilities, and behavioural characteristics</p> <p>11. Having the level of NASA certification in order of preference: ROBO Officer, MSS Systems Officer, selected for MSS Systems simulation flow..</p> <p>12. Experience in the preparation and execution of an assembly mission as a mission designer. (144)</p> <p>13. Experience in the preparation and execution of ISS Stage operations as a mission designer. (145)</p> <p>14. Experience in providing flight control support during on-orbit assembly and/or Stage operations. (146)</p> <p>15. Experience in analyzing, reporting, and providing recommendations for on-orbit MSS anomalies. (147)</p> <p>16. Ability to support definition and to prototype elements of the MSS functionalities and GUI.</p> <p>17. Knowledge of international Space Station (ISS) and Canadian Space Station (CSSP) programs</p>

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<p><b>ORGANIZATIONAL NEEDS</b></p> <p>1. Membership in one of the designated Employment Equity groups</p>	<p><b>ORGANIZATIONAL NEEDS</b></p> <p>1. Membership in one of the designated Employment Equity groups.</p>	<p><b>ORGANIZATIONAL NEEDS</b></p> <p>1. Membership in one of the designated Employment Equity groups.</p>
<p><b>CONDITION OF EMPLOYMENT</b></p> <p>Security Clearance: enhanced reliability to secret, as applicable to a given position.</p>	<p><b>CONDITION OF EMPLOYMENT</b></p> <p>Security Clearance: enhanced reliability to secret, as applicable to a given position.</p>	<p><b>CONDITION OF EMPLOYMENT</b></p> <p>1. Security Clearance: enhanced reliability to secret, as applicable to a given position.</p> <p>2. Be able to work at other facilities in and outside Canada (some of them requiring special access</p>
<p><b>OPERATIONAL REQUIREMENTS</b></p> <p>1. Be able to travel in Canada or abroad a few times per year.</p>	<p><b>OPERATIONAL REQUIREMENTS</b></p> <p>1. Be able to travel in Canada or abroad a few times per year.</p>	<p><b>OPERATIONAL REQUIREMENTS</b></p> <p>1. Be able to travel in Canada or abroad a few times per year.</p> <p>2. Be able to do shift work</p> <p>3. Be able to work at other facilities in and outside Canada (some of them requiring special access</p>