## Infrastructure & Engineering - Research Engineering

<table>
<thead>
<tr>
<th>Job Family</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
<th>Grade 13</th>
<th>Grade 14 - Individual Contributor</th>
<th>G14 - Management Track</th>
<th>Grade 15 - Management Track</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Engineering</td>
<td>Assistant Research Systems Engineer</td>
<td>Associate Research Systems Engineer</td>
<td>Research Systems Engineer</td>
<td>Sr. Research Systems Engineer</td>
<td>Lead Research Systems Engineer</td>
<td>Manager/ Sr. Manager, Systems Engineering</td>
<td>Director - Research Services</td>
</tr>
</tbody>
</table>

### Purpose:

**Works under direction.**

**Relationship Management:**

- assists with the day-to-day support of the system infrastructure. May include automation, processes, hardware and/or software.

**Architecture, Design, Development & Installation:**

- assists with assigned research and assigned design and development, such as the development of a small report or the automation of internal report monitoring. Assists and completes simple infrastructure installations and upgrades as assigned.

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- conducts assigned research, design and development, such as the design/development of a single technology for a CUIT group or a small customer group. Installs low/moderately complex software/hardware infrastructure.

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- responsible for the development of new implementation guidelines or standards. Provides architecture for systems. Installs moderate/complex software/hardware infrastructure. Performs complex implementations and/or customizations.

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- leads and/or oversees the development of protocols and standards for all system services and may have ultimate responsibility for their implementation and documentation. Leads and performs complex implementations and/or customizations of moderate/significant size and risk.

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- designs hard/software configurations for moderate/complex solutions to address University needs. Reviews and approves designs. Involved in the design and development effort of large and complex soft/hardware that is deemed critical to the University's operations. Performs complex implementations and/or customizations of moderate/significant size and risk.

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- responsible for the capabilities and configuration of the team and its preparedness to meet the IT and business requirements of the department. Partners with relevant faculty and staff to design strategies and solutions to support financial, academic and business requirements of the University. Has responsibility and oversight for all personnel decisions.

### Education & Experience:

- bachelor's degree and/or its equivalent required. Minimum 2-4 years related experience. Familiarity with industry standards and practices.

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- bachelor's degree and/or its equivalent required. Minimum 3-5 years related experience. Solid network/systems knowledge and understanding of industry standards and practices.

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- bachelor's degree and/or its equivalent required. Minimum 5-7 years related experience. Expert level networking knowledge and experience with a specific technical specialty.

- bachelor's degree and/or its equivalent required. Minimum 5-7 years related experience. Expert level experience with a broad range of technical specialties. Prior supervisory experience strongly preferred.

- bachelor's degree and/or its equivalent required. Minimum 7-9 years related experience. Experience in all relevant technical specialties, methodologies and practices. Prior managerial experience required.
| Soft skills: | Demonstrates a variety of competencies including teamwork/collaboration, analytical thinking, and strong communication. | Demonstrates a variety of competencies including teamwork/collaboration, analytical thinking, and strong communication. | Demonstrates proficiency in a variety of competencies including teamwork/collaboration, analytical thinking, communication and influencing skills. | Demonstrates excellence in a variety of competencies including ability to lead a team, teamwork/collaboration with technical and functional clients/peers, analytical thinking, communication and influencing skills. High degree of emotional intelligence. Proven ability to act as a change agent. | Demonstrates excellence in a variety of competencies including ability to manage a team, teamwork/collaboration with technical and functional clients/peers, analytical thinking, communication and influencing skills. Proven ability to act as a change agent. |
| Technical Skills: | Basic skills in some/all of the following technologies: Research Computing, Windows/Linux support/administration. | Basic skills in some/all of the following technologies: Research Computing, Windows/Linux support/administration. | Proficiency in some/all of the following technologies: Research Computing, Windows/Linux support/administration. Prior programming/scripting experience. | Strong proficiency in some/all of the following technologies: Research/High Performance Computing, Linux (RedHat) administration, AWS, GIT, Puppet, prior programming/scripting experience. | Expert level skills in some/all of the following technologies: Research/High Performance Computing, Linux (RedHat) administration, AWS, GIT, Puppet, prior programming/scripting experience. | Broad functional and/or technical experience in all relevant technical specialties, methodologies and tools such as Research/High Performance Computing, Linux (RedHat) administration, AWS, GIT, Puppet, prior programming/scripting experience. |