

## Research Scientist III – GTP 7

**Research Scientists perform work at the scholarly level for the purpose of research projects with varying degrees of expertise and accountability.** Positions at this level are accomplished professional researchers who normally hold a PhD or equivalent qualification and are very specialized in their field. They may be involved in large collaborative research projects that span across multiple sites, principal investigators and/or partnerships.

### **Typical Duties may include some or all of the following:**

- Applies specialized knowledge to conceptualize, design, develop, coordinate and manage major research projects
- Provides leadership for specialized or complex research projects including new or experimental methodologies
- Composes, leads and conducts research as an independent investigator or as a co-investigator
- Oversees the set-up and running of planned experiments, ensuring that they are appropriately supervised and resourced
- Applies advanced scientific principles to develop and adapt analytical techniques, trouble shoots research methods, modifying research protocols and experimental design
- Carries out complex experiments using advanced techniques
- Ensures lab/experiment safety procedures are implemented and followed
- Develops procedures/methods for collection of data
- Recommends product or process changes to improve the testing environment and support new methodologies
- Provides scientific interpretation and presentation of results in peer reviewed journals
- Maintains, repairs and operates complex analytical equipment
- Develops collaborations and partnerships with other researchers and industry partners to help shape research direction
- Plays a role in research collaborations with industry, providing consultation, setting up research trials, negotiating funding support and building partnerships
- Seeks new research opportunities and leads or participates in the development of new projects and proposals, negotiating research agreements
- Writes research proposals for funding and manages research project budget
- Writes manuscripts for publication in peer reviewed journals, articles and other media
- Provides leadership to other more junior researchers and technicians
- Participates and presents research findings at national and international conferences

**Decision Making/Accountability:** Independent judgement and autonomy required to conceptualize and design research plans and protocols and exploring new research methods and techniques.

**Supervision Received:** Supervisor provides overall goals and direction and provides final oversight on project plans and final budget.

**Supervision Exercised:** Provides supervision and guidance to other research staff within research project. May include advising/supervising undergraduate and/or graduate students. Provides expertise and guidance to others (including research team and students) as subject matter expert and project coordinator. May have oversight over project funding account.

**Working Environment:** Work may be performed in an office, laboratory, or field work outside, with potential exposure to outdoor elements, temperature extremes, chemicals and/or hazardous materials or equipment. May operate scientific machinery or equipment or work with animals, where there is an increased risk of injury.

### **Minimum Qualifications:**

- PhD in relevant field of study, with a minimum 4-5 years of practical experience as an independent researcher

- Or equivalent combination of education and experience (some roles may require more extensive experience or training in a particular area of research)