

Research Scientist III – GTP 7

Job Class Code: 101545

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)