Research Scientist II – GTP 6

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 senior professional researchers who normally hold a PhD or equivalent qualification and are very specialized in their field. Independently plans and executes complex non-routine research assignments requiring deep knowledge of scientific theory, principles and practices.

Typical Duties may include some or all of the following:

- Evaluates and interprets scientific data and prepares technical reports, including recommendations based upon findings
- Selects and uses appropriate procedures, methods, equipment and standards to produce required data for research project
- Conducts independent or collaborative research projects on experimental or original methods
- Writes manuscripts for publication in peer reviewed journals, articles and other media
- Oversees the set-up and running of planned experiments, ensuring that experiments are appropriately supervised and resourced
- Ensures lab/experiment safety procedures are implemented and followed
- Applies scientific principles to develop and adapt analytical techniques, trouble shoots research methods and scientific apparatus, modifies research protocol and experimental design
- Compiles and analyzes data utilizing scientific software to generate summaries, graphs and statistics for publication
- Conducts specialized investigative analysis and research studies using complex laboratory tests which can be both qualitative and quantitative
- Provides technical research project assistance to students and academic staff
- Consults with other scientists and researchers both internal and external to discuss new and existing methodologies and test procedures
- Responsible for management of assigned research grant and trust fund accounts
- Reviews and approves protocols for test procedures used in assigned research projects
- Presents research findings at national and international conferences, seminars and industry meetings

Decision Making/Accountability: Sound judgement required to advise on scientific methods and experimental design. Assists in the development of new scientific methods for research purposes.

Contacts/Interpersonal Skills: Requires teamwork with faculty members, students, industry partners and other researchers from within and outside of research project. Regular contact is necessary to discuss and monitor the performance of the project.

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

Supervision Exercised: May oversee the work of other research staff/student and acts as a functional resource with regards to scientific and experimental methods. May have oversight with regards to 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 3 to 4 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)