

Research Scientist I – GTP 5

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 generally recent PhD graduates or equivalent qualification in their field of study. Under general supervision, plans and executes non-routine research assignments requiring deep knowledge of related scientific theory, principles and practices.

Typical Duties may include some or all of the following:

- Designs experimental programs and conducts experiments based on those principles
- Provides scientific support to graduate students in a research project environment within and outside the University including the participation in graduate committees
- Performs/sets up complex laboratory experiments and assists in data evaluation, interpretation and preparation
- Presents research plans and results at research meetings, conferences and in reports
- Reviews and discusses research projects with industrial partners
- Prepares peer reviewed research papers and conference agendas with colleagues and students
- Develops new field methods, standard operating procedures, and tools as appropriate and necessary for the research project
- Compiles and analyzes data and may perform computations using various scientific software programs
- 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
- Prepares and delivers presentations and field demonstration materials for graduate courses
- Participates and presents research findings at national and international conferences
- Assists in developing overall research project plans and coordinates day to day project operations including, prioritizing milestones and deliverables, timelines, and scheduling

Decision Making/Accountability: Independent judgement required to carry out complex experiments utilizing experimental techniques and providing scientific support to students.

Contacts/Interpersonal Skills: Requires teamwork with faculty members, students, industry partners and other researchers from within and outside of the 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/students and acts as a functional resource with regards to scientific and experimental methods.

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 1 year 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)