

Research Assistant/Technician IV

GTAT Band D

Positions at this level require a significant amount of technical expertise and knowledge of highly specialized instrumentation/systems and require a high degree of independence to ensure the efficient day-to-day running of the laboratory and equipment.

Typical Duties may include some or all of the following:

- Responsible for the design, construction and evaluation of experimental and scientific equipment
- Uses advanced technical expertise to translate ideas into working models; adapt, modify or produce innovative research equipment as required to meet the needs of the research project
- Provides consultation to researchers and students in the selection and use of appropriate instrumentation, equipment and standards to produce required data
- Designs, fabricates, and maintains complex specialized equipment and instrumentation for teaching and research purpose
- Trains and instructs others on equipment/instrument operation including specialized techniques, and responsible for health and safety and development of standard operating procedures and processes related to the equipment/instrumentation
- Builds or modifies complex computational models to meet research needs
- Researches new techniques, tests, and equipment/instruments and provides recommendations on feasibility, quality, and benefits of such new developments
- Uses statistical software to conduct complex statistical analyses and calculations

Decision Making/Accountability: Some judgement in applying scientific principles, interpreting research data, and providing recommendations regarding modifications to research protocols.

Contacts/Interpersonal Skills: Contacts and interactions may extend beyond associates within their work area or research project; May present/discuss ideas related to research project to others within research team.

Supervision Received: Provided with guidelines and rough specifications or requirements and required to transform into specific work objectives.

Supervision Exercised: May supervise and oversee the work of other research staff and/or students and/or this position is the subject matter expert concerning specialized equipment and provides technical expertise and guidance to researchers and students in relation to the use of the equipment and its application to their research.

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 machinery or equipment or work with animals, where there is an increased risk of injury.

Minimum Qualifications:

- University degree in relevant discipline, with at least 1 to 2 years of related experience
- Or equivalent combination of education and experience (some roles may require more extensive experience or training in a particular area of research)