

## Research Technician

### DESCRIPTION OF WORK:

Positions in this banded class support experimental processes in a laboratory, clinic, field and /or teaching environment (hereafter referred to as "laboratory"). Work requires knowledge of applicable laboratory procedures, tests, techniques and terminology. The range of duties includes, but is not limited to: conducting experiments, collecting and summarizing data, and providing proper laboratory/study subject care. Employees at the journey and advanced levels may serve as a lead worker.

### EXAMPLES OF COMPETENCIES:

#### CONTRIBUTING:

**Knowledge-Technical:** Basic knowledge, skill and general understanding to perform standard duties related to the research. Knowledge and skills to use instrumentation and equipment.

**Operations-Research Support:** Ability to prepare standard media, reagents, and chemical solutions used for testing purposes, and the physical processing of specimens prior to testing. Ability to observe, measure and prepare subjects (patients, animals or crops) and test variables as specified in the research protocol.

**Data Collection:** Ability to observe, collect and record a variety of data.

**Laboratory/Subject Care:** Ability to provide routine care, maintenance and/or animal husbandry. Ability to prepare study subject for experimental procedures. Ability to apply and maintain sanitation and safety procedures.

#### JOURNEY

**Knowledge-Technical:** General knowledge of applicable area of science to perform laboratory procedures and tests in support of research protocol. Knowledge and skills to adjust and calibrate instrumentation and equipment as needed with limited supervision.

**Operations-Research Support:** Ability to conduct routine tests and procedures dictated by the research protocol. For example, ability to prepare tissue samples for immunochemical analyses, make pregnancy checks, assist in calving or furrowing, inoculate animals, select pairs for routine breeding, and perform euthanasia. Ability to assist in the layout and maintenance of subject environment. For example, field plots, subject housing arrangements and benchwork. Ability to mix and/or apply chemicals and/or other materials.

**Data Collection:** Ability to organize and tabulate data; ability to ensure quality control of data collection.

**Laboratory/Subject Care:** Ability to administer routine medications and prepare experimental and maintenance diets for research subjects according to established protocols and instructions; ability to observe study subject reactions. Ability to perform minor repairs and operate equipment and instruments in support of research laboratory, field, or clinical programs with limited supervision. Ability to maintain inventory of equipment, supplies, and related research materials.

#### ADVANCED

**Knowledge-Technical:** Specific knowledge in area of science related to the research project(s) essential to perform a variety of procedures. Knowledge and ability to independently operate instrumentation, equipment and/or software used for research objectives.

**Operations-Research Support:** Ability to perform and/or assist in specialized research procedures, tests, minor animal surgery and/or agricultural practices. For example, ability to perform molecular and biochemical procedures, protein purification, in vitro enzyme analyses, artificial insemination procedures, and care of gnotobiotic animals. Ability to independently prepare and maintain the layout of subject environment. Ability to calculate appropriate quantities of chemical(s) to

**Data Collection:** Ability to identify and report variations or discrepancies in the data; ability to organize and prepare data for analyses. Ability to provide preliminary summary of experiments, procedures and tests.

**Laboratory/Subject Care:** Ability to administer specialized medications or chemical treatments according to established protocols; ability to monitor and report study subject reactions. Ability to ensure compliance with sanitation and safety procedures by others. Ability to independently perform minor repairs and operates equipment and instruments in support of research laboratory, field, or clinical programs. Ability to identify, track and report variations or discrepancies

ensure they are properly mixed and applied.

in inventory used in laboratory; may require ability to distribute supplies. Ability to coordinate tests, procedures and experiments with ancillary units.

**MINIMUM TRAINING AND EXPERIENCE:**

Demonstrated possession of the competencies necessary to perform the work.

**Special Note:** This is a generalized representation of positions in this class and is not intended to identify essential work functions per ADA. Examples of competencies are primarily those of the majority of positions in this class, but may not be applicable to all positions.

**NECESSARY SPECIAL QUALIFICATIONS:**

Not Applicable.