DEFINITION:

Under the direction of a staff or faculty employee, a student performs the following duties:

(a) Designs and constructs experimental instrumentation as directed by a faculty member.

(b) Maintains and calibrates complex laboratory equipment to ensure consistent reliability.

(c) Prepares and characterizes samples for use in experiments.

(d) Performs experimental measurements necessary for successful support of ongoing experiments.

BASIC QUALIFICATIONS:

Must be a graduate level student. Must have advanced undergraduate training in the academic discipline with three (3) years of experimental laboratory experience, at least two (2) of which are advanced; must have demonstrated potential and creativity in previous laboratory work.

BASIC QUALIFICATIONS:

Three (3) years of experience at an advanced level in an experimental laboratory.

LEARNING OUTCOMES*:

- Show an awareness of own strengths and areas for development
- Identify areas for continual growth while pursuing and applying feedback
- Develop plans and goals.
- Display curiosity; seek out opportunities to learn.
- Communicate in a clear and organized manner so that others can effectively understand.
- Ask appropriate questions for specific information from specialists, supervisors, and others.
- Make decisions and solve problems using sound, inclusive reasoning and judgment.
- Accurately summarize and interpret data with an awareness of personal biases that may impact outcomes.
- Effectively communicate actions and rationale, recognizing the diverse perspectives and lived experiences of stakeholders.
- Multi-task well in a fast-paced environment.
- Keep an open mind to diverse ideas and new ways of thinking.
**Laboratory Research Assistant**

- Use innovative thinking to go beyond traditional methods.
- Plain, initiate, manage, complete, and evaluate projects.
- Prioritize and complete tasks to accomplish organizational goals.
- Consistently meet or exceed goals and expectations.
- Have attention to detail, resulting in few, if any, errors in their work.

*Learning outcome descriptions from the National Association of Colleges and Employers (NACE).*