**P4: Level Standards**

**GENERAL ROLE**

This level is accountable for directly providing service to any assigned work unit at the University. The service can focus on a single or a variety of job functions with varying degrees of independence. Positions at this level may supervise student or support employees.

Incumbents:

* Put into effect what is required by defined job duties and responsibilities following professional norms or established procedures and protocols for guidance.
* Alter the order in which work or a procedure is performed to improve efficiency and effectiveness.
* Recommend or implement modifications to practices and procedures to improve efficiency and quality, directly affecting the specific office operation or departmental procedure or practice.

**INDEPENDENCE AND DECISION-MAKING**

*🡪 Supervision Receive*d

* Works under direction.

*🡪 Context of Decisions*

* Decisions should involve selecting an approach from among alternatives, timing when certain tasks should be performed, determining how to best use available resources, and other similar choices.
* Decisions require more coordination and collaboration among different sources, taking into consideration the roles and impact on work outside the immediate organization.

*🡪 Job Controls*

* Has the latitude to make decisions on projects that they are accountable for delivering on.
* Free to plan and carry out all phases of work assignments.

**COMPLEXITY AND PROBLEM SOLVING**

*🡪 Range of issues*

* Assignments are defined as less reoccurring or cyclical tasks, and primarily consist of development or refinement of programmatic or administrative objectives.

*🡪 Course of Resolution*

* Resolution and project completion require substantial planning and scheduling within the department in order to obtain and align resources when and where needed.

*🡪 Measure of Creativity*

* Problems are not amenable to strict technical resolution, requiring innovative thinking.

**COMMUNICATION EXPECTATIONS**

*🡪 Manner of Delivery and Content*

* Regularly provides information on finished materials to others.
* Diplomatically and effectively deliver information difficult to understand or in contrast with a student or customer's views.

**SCOPE AND MEASURABLE EFFECT**

* Incumbents may supervise a small homogenous department, with proportionate responsibility to perform daily responsibilities similar to the work of subordinate staff.
* Actions typically affect an individual, item, event, or incident, etc.
* Actions taken are generally done to meet reporting requirements or regulatory guidelines, or to satisfy internal checks and balances and/or existing standards.
* Incumbents are typically designated as a lead or frequently assigned project leadership roles within a specific administrative/programmatic function or specialty area.
* Generally, have a more direct impact on a larger action or process, such as serving as an approver in a process, where the process is “owned” by a different work unit.

**Job Template**

**GENERAL SUMMARY**

Designs, builds, and implements sophisticated experimental apparatus for faculty, staff, and students in support of educational and research activities.

**REPORTING RELATIONSHIPS AND TEAMWORK**

Works under direction of a supervisor or manager. Serves a lead worker to employees who perform similar functions.

**ESSENTIAL DUTIES AND RESPONSIBILITIES**

*The intent of this section is to list the primary, fundamental responsibilities of the job – that is, the duties that are central and vital to the role.*

* Uses machines and parts designed specifically for experiments and research. Designs and develops custom precision parts.
* Quotes and purchases items for upcoming jobs and maintains an updated inventory of supplies for the machine shop.
* Consults on projects with faculty members, students, and researchers. Devises or designs experimental projects, equipment, or apparatus to meet needs.
* Diagnoses, repairs, or rebuilds equipment and instruments as required.
* Ensures safety by overseeing use of shop facilities by students, staff, and faculty to assure proper usage of equipment according to prescribed safety standards.
* Investigates accidents, compiles reports, performs routine checks, and initiates corrective action if necessary.
* Maintains shop facilities, including maintaining inventory of supplies and materials.
* Resolves complex design and malfunction problems of mechanical and scientific equipment.
* Performs related work as required.

**MINIMUM QUALIFICATIONS**

* Bachelor’s degree in related field.
* Four to five years of related experience.

**COMPETENCIES**

**Knowledge of:**

* Basic electronics, mechanics, and mechanical design
* Safety procedures and protocols
* Metals, alloys, and plastics
* Microsoft Office and related software applications

**Skill in:**

* Planning and organization
* Troubleshooting
* Leadership
* Developing and maintaining effective and appropriate working relationships
* Critical thinking, problem solving and analysis

**Ability to:**

* Design and fabricate research equipment
* Communicate effectively through both oral and written means
* Respect diversity and work collaboratively with individuals of diverse cultural, social and educational backgrounds
* Machine and manufacture metal instruments/parts
* Plan, organize, and conduct safety courses
* Maintain the confidentiality of information and professional boundaries
* Work independently to analyze available information, draw conclusions and understandings, and present such conclusions effectively to senior management