**Accelerator Physicist II Standard Job Description**

**Classification Title:** Accelerator Physicist II

**FLSA Exemption Status:**Exempt

**Pay Grade:** Commensurate

**Minimum Pay:** $94,392.00

**Job Description Summary:**

The Accelerator Physicist II (APII) works collaboratively with Cyclotron staff and faculty to deliver beams to users, implement facility upgrades, and to facilitate improvements and repairs to the existing particle-accelerator devices housed at the Cyclotron Institute. These devices include cyclotrons, ion sources, beam-line components, as well as spectrometers and associated detectors. Provides advice, calculations, design, and operation of both existing and envisioned systems.

**Essential Duties/Tasks:**

**40% Operation and Maintenance of Accelerator Equipment**

* Operates ion sources, cyclotrons, beam line elements, and accelerator equipment for the
* Cyclotron science and applied physics programs.
* Tunes and adjusts the various accelerator devices and associated beam transport systems to deliver ion beams of the required quality and intensity to various experiments.
* Troubleshoots and reports problems with accelerator equipment.
* Assists in the maintenance, operation, implementation, and improvement of the various magnetic spectrometers and associated accelerator equipment housed at the Cyclotron Institute.
* Occasionally assists with the Radiation Effects Facility project by tuning ion sources and adjusting accelerator devices and beam transport systems as necessary.

**20% Collaboration and Training**

* Works with the Accelerator Technician and other staff to maintain a safe and efficient work environment.
* Trains Radiation Effects Facility Operators.
* Participates in various experimental programs to enhance accelerator and detection capabilities and scientific output.

**10% Research and Proposal Development**

* Participates in proposal preparation for external funding.
* Writes progress reports, conference proceedings, and journal publications on technologies developed in accelerator physics.

**5% Design and Improvement of Systems**

* Participates in the design, maintenance, and implementation of improved detector systems for the Cyclotron Institute nuclear science programs.

**5% Learning and Development**

* Learns to calculate the parameters of the accelerator and beam transport systems for existing and newly developed beams.

**20% Duty Title (for the department's use)**

* Remaining Percentage Can Be Determined by Department to Meet Business Needs or Can Be Incorporated into Percentages Above.

**Qualifications:**

**Required Education:**

* PhD in Physics, Chemistry or Engineering or closely related field from an Accredited College or University or an equivalent combination of education and experience.

**Required Experience:**

* Three years of related experience.

**Required Licenses and Certifications:**

* None

**Required Knowledge, Skills, and Abilities:**

* Ability to multitask and work cooperatively with others.

**Additional Information:**

**Machines and Equipment:**

* Computer
* Telephone

**Physical Requirements:**

* None

**Other Requirements and Factors:**

* This position is security sensitive
* This position requires compliance with state and federal laws/codes and Texas A&M University System/TAMU policies, regulations, rules and procedures
* All tasks and job responsibilities must be performed safely without injury to self or others in compliance with System and University safety requirements

**Is this role ORP Eligible? If so, it needs to meet the criteria on the** [**Rules and Regulations of the Texas Higher Education Coordinating Board**](https://reportcenter.highered.texas.gov/reports/data/user-friendly-version-of-ch-25/)**.**

[ ]  **Yes**

[x]  **No**

**Does this classification have the ability to work from an alternative work location?**

[ ]  **Yes**

[x]  **No**