

Executive Summary

PROJECT TITLE: Development of Interrelated Concentrations in Nuclear Engineering Technology and Health Physics

Objectives: Rochester Institute of Technology (RIT) seeks support to create five courses in nuclear engineering technology (NET) and health physics (HP), which will be available to all students with the appropriate preparation and interest. This project is innovative because courses will be prepared to be delivered through RIT's robust online learning capabilities, as well as on campus in an experiential learning environment. This project will develop the courses for a NET concentration and two of the three courses needed for a future HP concentration. Delivery of all courses will take place after the project has been completed. The courses to be developed during the one-year project include:

1. Fundamentals of Nuclear Energy
2. Nuclear Engineering
3. Process Control Systems
4. Introduction to Health Physics
5. Radiation Instrumentation

Benefits

- Development of nuclear related course work in both classroom and online formats that provide options for student populations.
- Creation of a wide portfolio of curricula to support the nuclear industry and health physics workforce needs.
- Development of online curricula that will enable nuclear and health physics professionals to upgrade their skills while maintaining their jobs.
- Development of curricula for a certificate in Nuclear Engineering Technology to accompany existing bachelor degree options.
- Laying the foundation for offering more elaborate programs of study in nuclear engineering technology and health physics in the future