SECURE for Student Success

Undergraduate Research Program

Department of Health Sciences- Radiologic Sciences (RS) program

Research Duration: Summer 2025 (June – August 2025)

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Title of Project: "The Effects of Occupational Dose on Radiographers During Portable Examinations."

Goals and Objectives of the Project, Expectations and Outcomes

The students will be conducting a research about the amount of occupational dose/radiation that the technologists are receiving each time they perform a portable examination. Students will also investigate methods that can be used to minimize the radiation to technologists and other health care providers during portable exams.

This research is extremely useful to the practice of Radiography because portable exams are being performed hourly and requests for them are always in influx at the radiology departments. Knowledge of radiation protection in this area not only helps the radiologic technologists performing the exam, but also surrounding occupational workers and the general public who are ignorant to the effects of radiology and how to protect themselves.

We expect that students can gather sufficient data with this research to help radiology departments' administrators and managers establish better/safer radiation safety protocols for the technologists and general public during portable examinations.

The expected outcomes from the summer 2025 research program include poster and oral presentations by the students during the annual research symposium that will be held in early fall 2025.

Participant Requirements:

Due to the nature of this research and working with ionizing radiation and heavy equipment, students must follow the following guidelines to be considered for this project:

1. Wear a dosimeter/Radiation badge in the lab and around ionizing radiation at all times.

2. Complete a short Radiation Safety course prior to start of the research project.

3. Be willing and able to lift up and move phantoms that are 30-40 lbs.

4. Complete a 2-hour comprehensive training in the lab to be familiar with the environment and safe handling of electronic/digital image receptors and processing units.