Development of Graduate-Level Nuclear Safety Course Modules and Radiation Protection Laboratory Exercises

Executive Summary

The purpose of this project is three-fold: (1) development of stand-alone graduate-level radiation protection physics and radiation biology modules, (2) development of clinical and NRC compliance training modules for radionuclide therapy (I-131 and others) and brachytherapy, and (3) development of radiation physics laboratory exercises based on the state-of-the-art radiation detector technology. We anticipate that the final course modules will meet the rapidly changing educational and training needs of nuclear safety and radiation protection programs in this country. To the best of our knowledge, no educational modules exist in the public domain comparable to our proposal. We believe that major benefit would be the dissemination of new information from one of the nation's top academic institutions and medical centers in regards to radiation protection design and clinical practices along with the cutting-edge knowledge of radiation physics.