

Curriculum Development in Health Physics and Nuclear Engineering

Executive Summary

Louisiana State University (LSU), in partnership with The Shaw Group, Entergy Corporation, and Enercon Services, Inc., intends to implement a workforce development program to train students to work in the nuclear power industry. With an emphasis in Health Physics and Nuclear Engineering, the program will involve collaboration between LSU's Departments of Physics & Astronomy and Mechanical Engineering. The goal will be to begin designing and implementing the curriculum, establishing student laboratories, and recruiting new faculty in summer 2009. The industry partners will contribute technical expertise and advice, internships for students and jobs for the program's graduates, and funding. In Health Physics, efforts will be concentrated on Dosimetry and Measurements, Modeling, and Environmental Transport. In Nuclear Engineering, the emphasis will be on Thermal/Fluid Transport and Plant Design. Both the Health Physics and the Nuclear Engineering program will train undergraduates and Master's students. Funding will modernize and upgrade the curriculum, introduce updated courses to reflect the current state-of-the-art and future trends, and establish modern laboratories for our Engineering and Physics students.

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