Replacement of the Oregon State TRIGA® Reactor Ventilation System

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**Collaborators:** N/A

**ABSTRACT:**

The objective of this proposal is to replace the Oregon State TRIGA® Reactor ventilation system in order to increase the reliability and safety of the operational condition of the reactor. This upgrade will provide opportunity for continued safe use of the reactor in the areas of nuclear science and engineering research as well as material science at Oregon State University (OSU) and development relevant to the DOE mission but also quality academic environment. This effort will focus on replacing the ventilation system of the Oregon State TRIGA® Reactor that will improve the reliability and safety of the reactor and benefit researchers and students interested in nuclear engineering, radiation health physics, radiochemistry, as well as other fields dependent upon nuclear technology. The unique learning experience utilizing the reactor will reinforce theoretical material from the traditional student classroom experience while developing advanced measurement skills. The successful realization of this effort will enable OSU to educate highly capable individuals who will be needed to fill the critical needs of tomorrow’s nuclear infrastructure, while concurrently contributing to mission and needs of DOE-NE.