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Systems Engineering Initiative: Undergraduate Education Enhancement in a Regional Education Network

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The Systems Engineering Initiative (SEI) is an experience based education enhancement program that forms teams of undergraduate students with faculty and industry mentors to solve problems of interest to industry. This model of innovation creates a new learning paradigm that is outside the traditional classroom based model and fits more of the Master-apprentice model as applied to engineering teams. The SEI program is currently administered by the Nuclear Power Institute (NPI), a regional nuclear education network, and is being carried out at three partner universities.

Previous nuclear related projects have benefited industry and are of high technical quality with publications in peer-reviewed journals and awards for presentations in various forums. Students within the program have benefited through development of soft skills outside the traditional curriculum, understanding of how their knowledge fits into a nuclear organization, and exposure to career opportunities. Industry and other NPI stakeholders benefit from the development of capable engineers and technicians, positive outreach to the community, and most importantly, knowledge transfer to the next generation of nuclear professionals.

Country or International Organization

USA

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