

Summer Nuclear Engineering Institute at the University of Texas at Austin

Executive Summary

We propose to continue offering, with an expanded enrollment base and enhanced curriculum, our one-month *Summer Nuclear Engineering Institute* at The University of Texas at Austin (UT-Austin). The Institute, being offered for the first time during July 2009, is funded by the NRC under a Nuclear Education Grant awarded in September 2008.

The primary objective of the Institute is to impart upon future nuclear professionals, including those from non-nuclear academic disciplines, the practical skills they will need when working in proximity to a nuclear reactor or in an environment where radiological hazards are present. The 1 Megawatt JJ Pickle TRIGA reactor at UT-Austin plays a central role in the Institute curriculum, as does the health physics instrumentation maintained at the UT-Austin Nuclear Engineering Teaching Laboratory. The strong practical and experimental component of the Institute curriculum is complemented by classroom lectures providing a sound grounding in the fundamentals of health physics, nuclear reactor physics, nuclear systems engineering and, from 2010 onward with the addition of Dr. Alexandre da Silva, practical applications of heat transfer and thermal fluid science to nuclear steam supply system and power generation engineering.

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