

Junior Nuclear Environmental Engineering and Science Faculty at Clemson University

Executive Summary

The objectives of this proposal are twofold: (1) to support the academic career of our radiochemistry assistant professor and (2) attract and support a new junior nuclear faculty in health physics. In the first year of the grant, funds will be used to assist our radiochemistry junior faculty, Dr. Brian Powell, who started his academic career at Clemson University in January 2008. The NRC Faculty Development Grant, coupled with existing NRC Education and NRC Fellowship Grants will provide an excellent base for Dr. Powell to establish a successful academic career. The remaining two years of the grant will be used to support a junior faculty whom is to replace a retired senior nuclear faculty. This grant, along with the Clemson University cost share, will be used to supplement the start-up package for the incoming professor who will begin in Fall 2010. It is noteworthy that the incoming junior faculty hire is occurring in spite of the current hiring freeze at Clemson University. This proposal serves to support the junior nuclear environmental engineering and science (NEES) faculty with resources to facilitate their early career development. These resources include but are not limited to (1) salary during the academic year to develop course/course notes and during the summer to develop a research program, (2) equipment, travel funds, and materials and supplies needed for establishing research programs, and (3) funding for graduate students to assist the faculty in establishment of their research program and research lab. Maintaining a critical mass of three faculty with academic training in the nuclear engineering and science field is critical for the long-term viability of the program within our Environmental Engineering and Earth Sciences (EE&ES) Department as well as maintaining Accreditation Board for Engineering and Technology (ABET) Applied Science Accreditation Commission (ASAC) accreditation of our environmental health physics program.

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