U.S. NRC SCHOLARSHIP - Entry of Fall 2013 -

The award of $4,000 per student per Fall 2013 semester will be given to the students with the highest GPA and the best one-page essay on one of the following topics: reactor modeling & simulations, advanced visualizations of complex simulations, nuclear forensics, radiochemistry, nuclear materials detection and signal analysis, nuclear reactor design including fuel cycle, nuclear laws, nuclear safeguards and environmental nuclear engineering (propagation and effects of radon and NORMS, nuclear power plants response to extreme environmental conditions, tracking of meteorological “markers” in predicking and modeling atmospheric conditions using nuclear engineering techniques, use of NAA in agriculture, environment, food industry, space engineering and electronics.

To apply, after reading the guidelines provided in the next page, submit the following documentations to UNEP Director, Prof. Tatjana.Jevremovic@utah.edu, No later than August 21st 2013:

1. ONE PAGE essay in describing: the research topic of your interest (from the list as provided) and its rationale, its novelty and impact in straightening national interests in nuclear technology, industry and research.
2. Register for NUCL4900/NUCL5900, Summer/Fall 2013/Spring 2014 [read about these courses]
3. ONE PAGE research plan [next page for guidelines]
4. GPA transcript
Guidelines and Criteria

• The award of $4,000 per student per semester per selected student will be given to the students with the highest GPA and the best one-page essay on one of the topics: reactor modeling & simulations, advanced visualizations of complex simulations, nuclear forensics, radiochemistry, nuclear materials detection and signal analysis, nuclear reactor design including fuel cycle, nuclear laws, nuclear safeguards and environmental nuclear engineering (propagation and effects of radon and NORMS, nuclear power plants response to extreme environmental conditions, tracking of meteorological “markers” in predicking and modeling atmospheric conditions using nuclear engineering techniques, use of NAA in agriculture, environment, food industry, space engineering and electronics.
• Every student may receive a maximum of $8,000 per year, or a maximum of $16,000 for two years.

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• In order to apply you must be enrolled or will enroll in Nuclear Engineering Minor or be accepted for the graduate program.
• The awarded students are required to sign in for NUCL4900/NUCL5900: Research in Nuclear Engineering course. This course will provide a student with the opportunity to do research related to his/her essay submitted for this scholarship.
• Travel support in attending the ANS Student Conference to present the research as a result of this scholarship will be provided in full.
• ONE PAGE ESSAY must contain cover page followed by one page of the research topic description. Use 1” margin, and 1.0 line spacing, and Cambria 11 font. Cover page template is provided at the end of this document.
• ONE PAGE RESEARCH PLAN must contain cover page and one page research plan according to NUCL4900/5900 course outlines. Cover page template is provided at the end of this document.

ANS Student Conference: April every year
2014 April: Penn State University, Pennsylvania
Utah Nuclear Engineering Program (UNEP)
US N.R.C. Scholarship Application for Fall 2013

ESSAY

Name:

Department:

Enrolled in Nuclear Engineering Minor:
YES (year: )  NO (will enroll in fall 2013)

Registered for fall 2013:
NUCL4900 (credits____)  NUCL5900 (credits ____)

Research topic (circle one):
1. Reactor modeling & simulations
2. Advanced visualizations of complex simulations
3. Nuclear forensics
4. Radiochemistry
5. Nuclear materials detection and signal analysis
6. Nuclear reactor design including fuel cycle, nuclear safeguards and nuclear law
7. Atmospheric sciences
8. Environmental sciences [NORMS, radon, etc]
9. NAA in agriculture, food industry, space engineering and electronics
Utah Nuclear Engineering Program (UNEP)
US N.R.C. Scholarship Application for Fall 2013

RESEARCH PLAN

Name:

Department:

Enrolled in Nuclear Engineering Minor:
YES (year: ) NO (will enroll in fall 2013)

Registered for fall 2013:
NUCL4900 (credits____)  NUCL5900 (credits ____)

Research topic (circle one):
1. Reactor modeling & simulations
2. Advanced visualizations of complex simulations
3. Nuclear forensics
4. Radiochemistry
5. Nuclear materials detection and signal analysis
6. Nuclear reactor design including fuel cycle, nuclear safeguards and nuclear law
7. Atmospheric sciences
8. Environmental sciences (NORMS, radon, etc)
9. NAA in agriculture, food industry, space engineering and electronics