Who Can Apply: Undergraduate students specializing in the physical sciences are encouraged to apply. Applicants must be U.S. citizens. Applicants must submit a cover letter, a current resume, a university transcript (unofficial is ok, include a spring 2014 schedule), and a letter of recommendation from a faculty member or technical reference. Please address the following questions in your cover letter. Why are you interested in this program? How would you benefit from this program? What are your career goals and how does this program relate to them?

Students will be notified of selection by March 29, 2014.

Stipend: Each student will receive a meal plan for $20/day with lunch regularly provided Monday through Friday and a $5,000 stipend. A portion of the stipend will be used to cover travel costs to and from MU.

Purpose: In its fifth year, this six week summer school will be held June 9 - July 18 on the University of Missouri, Columbia campus. The course is designed to provide comprehensive, experimental, hands-on training in topics essential to nuclear forensics as a means of interesting students in pursuing graduate studies in technical fields related to nuclear forensics.

Technical Focus: Students will be trained in topical areas such as: 
- Nuclear Decay
- Atomic and Nuclear Structure
- Nuclear Material Processes and Uses
- The Nuclear Fuel Cycle
- Radiation Detection
- Standard Analytical Methods
- Environmental Radiochemistry.

Objectives: The course includes a combination of laboratory work and lectures, many of which are given by preeminent experts in the nuclear forensics community from the National Laboratories and federal agencies. Coursework will cover major topics in nuclear and radiochemistry, as well as in the chemical and physical characterization of actinide-bearing materials. At the completion of this summer school, students will understand:
- The chart of nuclides (and be able to use it)
- Different modes of radioactive decay
- Components of the nucleus and how it influences nuclear properties
- How fission is induced and the resulting products
- Radiation detection and mass spectroscopy, and be able to determine isotope concentration or ratios
- The fundamental components and chemistry in the nuclear fuel cycle
- The chemistry of key radio-nuclides in applications important to nuclear forensics
- The application of analytical methods in characterizing materials
- Contemporary issues in nuclear forensics.

Field Trip: The 2014 Nuclear Forensics Summer School will include a field trip to Savannah River National Laboratory to provide participants a first-hand view of an operational environment.

CONTACT: Susan Ramsay, Los Alamos National Laboratory email: ramsay@lanl.gov phone: 505-663-5206 fax: 505-663-5225

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