



Research Experiences for Undergraduates

Nuclear Physics, Radiobiology, and Nuclear Engineering Summer Program
 Idaho State University, **May 17th to July 23rd, 2010***

*earlier or later starting dates are negotiable

Instructions

Complete all items on this form and return to:

REU Program in Physics
 Idaho State University
 Mail Stop 8106
 Pocatello, Idaho 83209
 phone: 208 282-2350
 fax: 208 282-4649

Your complete REU application should contain the following:

- √ Application form
- √ Essay
- √ Two letters of recommendation*
- √ Official Transcript*

*may be mailed separately

Application forms and essays may be sent by e-mail to oneill@athena.physics.isu.edu.

Application forms (online) can also be found at <http://www.physics.isu.edu/internships/reu.html>

Applications due on March 1st, 2010.

Applicant Data

Last Name		First Name	Middle Initial
Email		Best phone numbers for contacting you:	
Citizenship Status: Please indicate if you are a <input type="checkbox"/> U.S.A. Citizen <input type="checkbox"/> Permanent Resident		Date of Birth	
College or University		Major(s)	
Overall GPA	Total Credits Completed as of June 2009	Expected Graduation Date	
1) Current Mailing Address (during academic year)			
City State Zip Phone			
2) Permanent Mailing Address (If different from above)			
City State Zip Phone			

Research Experience

Detail any previous research experience you may have had. This information will be used to help determine your research placement.

Honors and Awards

List relevant honors or awards

ISU REU Nuclear Physics, Radiobiology, and Nuclear Engineering Summer Program Application – (continued)

Essay

Attach a typed essay (250-500 words) describing your research interests and your educational and professional plans. Be sure to put your name at the top of each page.

Research Areas

Please rank, in order, your preferences among the following research topics, with “1” signifying your first choice.

- Linearly polarized photon beam development
- Neutral pi meson lifetime analysis
- Linear accelerator techniques for nonproliferation and homeland security
- Dye sensitized solar cell development
- Neutron flux, reaction rate, and thermal property calculations for nuclear reactors
- Photofission with linearly polarized photons
- Wire chamber detector testing and development
- Enhancement of radiation resistance in microbes
- Gene expression profile studies of microbes subject to radiation and antibiotic stress
- Nuclear reactor health physics
- Photon activation analysis, XRF, and laser ablation studies of stone tools for archeology
- Trace metals uptake in bones of mammals and fish from archaeological sites
- Computational studies of the elastic properties of heme compounds
- Quantum field theory in curved spacetimes and quantum gravity

Faculty References – Name and Contact Information

1) Name		Institution
Phone	FAX	E-mail
2) Name		Institution
Phone	FAX	E-mail

Additional Data – Optional

For data collection purposes only, please complete the following.

Note: this information will not be used to determine participation in the program.)

Race/Ethnic Group

African American Asian Caucasian Latino Native American _____ Other (fill in)

Sex

Female Male

Idaho State University is an equal opportunity/affirmative action educator and employer.