Research Experiences for Undergraduates
Nuclear Physics, Radiobiology, and Nuclear Engineering Summer Program
Idaho State University, May 18th to July 24th, 2009*
*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

There is no absolute deadline for submission of applications: offers will be made on a rolling basis beginning on March 1st, 2009, until all available positions are filled.

Applicant Data

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<th>Last Name</th>
<th>First Name</th>
<th>Middle Initial</th>
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Email

Best phone numbers for contacting you:

Citizenship Status: Please indicate if you are a
[ ] U.S.A. Citizen  [ ] 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)

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2) Permanent Mailing Address (If different from above)

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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


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

Faculty References – Name and Contact Information

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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.