Research Experiences for Undergraduates
Nuclear Physics, Radiobiology, and Nuclear Engineering Summer Program
Idaho State University, May 21st to July 27th, 2012*
*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 February 1st, 2012.

Applicant Data

Last Name                      First Name                      Middle Initial

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 2012

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
- _____ Linear accelerator techniques for nonproliferation and homeland security
- _____ Neutron flux, reaction rate, and thermal property calculations for nuclear reactors
- _____ Photofission with linearly polarized photons
- _____ Enhancement of radiation resistance in microbes
- _____ Gene expression profile studies of microbes subject to radiation and other stresses
- _____ Photon activation analysis, XRF, and laser ablation studies of stone tools for archeology
- _____ Physical & material parameters affecting cross-calibration in XRF and Plasma chemistry
- _____ Photonuclear production of medical isotopes
- _____ Neutron flux, reaction rate, and thermal property calculations for nuclear reactors

**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.*