Furman University NIH-INBRE and NSF-RII Programs
2013 Summer Undergraduate Research Application

Program Description
Furman University, through support from statewide IDEA Networks in Biomedical Excellence (NIH-INBRE) and Research Infrastructure Improvement (NSF-RII) Awards, will fund several undergraduate research fellowships in the summer of 2013. Participants will perform full-time research as colleagues with Furman faculty for ten weeks, beginning Monday, May 13, 2013 and ending Friday, July 19, 2013 (start and end dates are somewhat flexible with permission of the Furman research advisor). A salary of $5,000 (NIH-INBRE, tax withheld) or stipend of $4,500 (NSF-RII, no taxes withheld) will be provided to each participant. As a part of the South Carolina INBRE and NSF initiatives, these awards provide opportunities for undergraduates to engage in significant, cutting-edge research activities resulting in presentation at professional meetings and/or leading to publication in peer-reviewed scientific journals. Students from groups traditionally underrepresented in the sciences (e.g., students of Hispanic, Native American and African-American descent) are encouraged to apply. On-campus housing is available through Furman’s Housing Office (applications are not yet available but will be provided with the mentor update, please note that housing funding is not included in the award).

Faculty Projects
In Summer 2013, we anticipate that 8-10 Furman faculty members spanning at least four departments will participate as research mentors. By late February, additional information will be provided that will allow applicants to select and prioritize from those projects of greatest interest in their area of specialization. At that time, applicants will be encouraged to contact faculty members directly (using e-mail addresses to be provided) to obtain detailed descriptions of the projects available and the associated research environment. Participants will work in a laboratory setting with other undergraduate research students from Furman and/or other regional institutions. Competitive applicants will have completed a full year of college study including at least three courses in their science major. A representative list of sample projects anticipated for Summer 2013 is provided below.

2013 NIH-INBRE Faculty
Dr. Karen Buchmueller, Assistant Professor, Department of Chemistry (NIH-INBRE)
karen.buchmueller@furman.edu (Biochemistry: Targeting DNA Interactions to HMG Proteins)

Dr. Renee Chosed, Assistant Professor, Department of Biology (NIH-INBRE)
renee.chosed@furman.edu (Biochemistry: Posttranslational Modifications in Disease Expression)

Dr. David Hollis, Assistant Professor, Department of Biology (NIH-INBRE)
david.hollis@furman.edu (Human Physiology: Studies of Brain Injury Using Teleost Models)

Dr. Nick Kuklinksi, Assistant Professor, Department of Chemistry (NIH-INBRE)
nick.kuklinksi@furman.edu (BioAnalytical Chemistry: Neurotransmitters in Non-Mammalian Systems)

Dr. Onarae Rice, Assistant Professor, Department of Psychology/Neuroscience (NIH-INBRE)
onarae.rice@furman.edu (Neuroscience: Endocannabinoid System as a Mediator in Toluene Addiction)

2013 NSF-RII Faculty
Dr. Tim Hanks, Assistant Professor, Department of Chemistry (NSF-RII)
tim.hanks@furman.edu (Bioorganic: Development of Novel Materials for Biofabrication)

Dr. Dake Wang, Assistant Professor, Department of Physics (NSF-RII)
dake.wang@furman.edu (Physics: Tissue Vascularization Characterized by Raman Spectroscopy)

This list was updated in late February
APPLICATION FOR
2013 FURMAN NIH-INBRE / NSF-RII SUMMER FELLOWSHIPS

Applicant name: ____________________________________________

Applicant's institution: ______________________________________

Campus address: ____________________________________________

Home address: _____________________________________________

___________________________________________________________

___________________________________________________________

Campus phone: _____________________________________________

Home phone: ______________________________________________

E-mail address: _____________________________________________

Furman faculty preference:
1. ____________________________________________ 2. __________

Sex: ___ M ___ F

Race/Ethnicity: ___ African-American ___ Caucasian ___ Pacific Islander ___ American Indian ___ Hispanic ___ Other (Specify)

U.S. citizen or permanent resident? ___ Yes ___ No

Highest Level of college completed in May 2013: F So Jr Sr

Major: ____________________________________________

SAT scores: ______ Math ______ Verbal OR ______ ACT Composite

Please list below the names, institutions and office phone numbers of two former or current professors who are willing to serve as references. Please ask each referrer to print a supporting letter on institutional letterhead, place in a sealed envelope signed across the back flap, and return to you for inclusion in your application packet or mail separately to the address below.

REFERENCES:
Reference 1 Name: ___________________________________________

Institution: _________________________________________________

Phone: ________________________

Reference 2 Name: __________________________________________

Institution: _________________________________________________

Phone: ________________________

Please also submit the following items with your application packet:
• An official transcript(s) of your college record as of Fall Term 2012
• A one-page (single space) personal statement indicating prior research experience and discussing how this experience will enhance your career goals (12 Point/Times Font)

Mail completed application packet to:
Ms. Sydney Wood
Office of Integrative Research in the Sciences
Furman University
3300 Poinsett Hwy.
Greenville, SC 29613

Deadline for receipt is Friday March 15, 2013.
Students selected to participate will be announced via e-mail by Wednesday, March 29, 2013.
Please email or me if you have any questions: Sydney Wood, 864.294.3337