Summer 2016
Invitation for Faculty & Students

Accepting Faculty-Student TEAMS*

10 week summer Research program at Furman University
(May 16- July 22)

Send inquiries to:
Karen Buchmueller:
karen.buchmueller@furman.edu

Tim Hanks
tim.hanks@furman.edu

Bring your own research or collaborate with Furman Faculty!

This program will provide the following:

- Student stipend: $5000
- Student housing supplement: $500
- Faculty stipend: $8000
- Research supplies: $1000
- Research space
- Access to departmental equipment
- Student registration and travel support the Southeast Regional ACS meeting

Visiting faculty may bring up to two students.

* This program is designed for participation by Faculty/Student Teams. Individual students cannot be accepted.
Furman Faculty

Karen Buchmueller: understanding the mechanisms by which small molecules compete with proteins for DNA binding

Brian Goess: synthesis of biologically-active small molecule natural products and the development of new reactions

Tim Hanks: mechanisms of self-assembly and their use in supramolecular synthesis

Lon Knight: variety of schemes are used to generate, trap and study new radicals by ESR

Nick Kuklinski: development of separation systems to measure neurotransmitters in non-mammalian systems for correlation with learning and drug use and abuse

Jeff Petty: looking at hydration changes for DNA-drug interactions, DNA based nanomaterials and DNA structures in neurological diseases

Greg Springsteen: evolving DNA aptamers through SELEX using a unique hairpin strategy

Paul Wagenknecht: development of photochemical molecular devices (PMDs)

John Wheeler: developing novel strategies for separating chiral transition metal mixtures using capillary electrophoresis

Laura Wright: harnessing the optical properties of nano-structures for use in sensing applications

Applications Due
March 4, 2016

Submit applications to: karen.buchmueller@furman.edu (form available in October 2015)

For more information, see: http://chemistry.furman.edu/reu/
for more information

Summer Activities

Students
• professional and technical workshops (academic credit possible)
• communication skill building
• science outreach project

Faculty & Students
• Superb laboratory facilities
• weekly lunch meetings
• invited seminar speakers
• social gatherings and events

Faculty Mentors
• peer mentoring
• professional development