Undergraduate Research Fellowships Announcement
Summer 2018 (May 20 – July 28, 2018)

National Science Foundation Research Experiences for Undergraduates (REU) Site
INTERDISCIPLINARY WATER SCIENCE AND ENGINEERING
Virginia Tech, Blacksburg, Virginia

Application Deadline February 16, 2018 (5:00 PM, EST)

Qualified and motivated undergraduate students (rising sophomores, juniors, and seniors) from all U.S. colleges and universities are invited to submit applications to participate in a 10-week (May 20 - July 28, 2018) summer research experience in interdisciplinary water science and engineering at Virginia Tech. U.S. Citizens or Permanent Residents are eligible to apply. The research program is funded through the National Science Foundation’s Research Experiences for Undergraduates (NSF REU) Site program. The 10-week internship will begin May 20, 2018, (arrival day) at Virginia Tech and will end July 28, 2018, (departure day). This research internship includes a stipend of $500/week, housing (two persons per room), meals, and travel expenses (limited to a maximum of $500 per person for students working at Virginia Tech and a maximum of $1500 for those students travelling to India). From our prior sites, during 2007-2017, we have graduated 95 excellent undergraduate researchers representing 55+ institutions in the United States. Application materials, details about research mentors, along with information on summer 2018 research projects and other program activities, are posted under the “NSF-REU SITE” tab on the following website: [http://lewas.ictas.vt.edu/](http://lewas.ictas.vt.edu/).

Applicants are requested to upload their applications along with the other required documents by the deadline. Review of applications will begin February 12. However, we'll continue to accept applications until February 16, 2018. We'll start contacting successful applicants by February 23. Please contact Dr. Vinod K. Lohani (phone: (540) 231-0019; FAX: (540) 231-0970; E-mail: vlohani@vt.edu) if you have questions.

**Titles of Summer 2018 Projects**

Project 1: Robot Design for Sampling in Environmental Monitoring (Dr. Vinod K. Lohani)
Project 2: Water Quality and Ecosystem Dynamics in a Drinking Water Reservoir (Drs. Cayelan Carey and Madeline Schreiber)
Project 3: Investigation of the Occurrence and Fate of Pharmaceuticals and Personal Care Products (PPCPs) in Urban-impacted Watersheds (Dr. Kang Xia)
Project 4: Water Quality for Humanity and the Environment (Dr. Andrea Dietrich)
Project 5: Bacterial Contamination of Water Distribution and Plumbing Pipelines (Drs. Mark Edwards and Amy Pruden)
Project 6: Recovery of Nutrients and Water from Wastewater Using an Integrated Osmotic Bio-Electrochemical System (Dr. Jason He)
Project 7: Symbioses in Aquatic Systems (Dr. Bryan L. Brown)
Project 8: Drivers and Functions of Vulnerable Waters (Dr. Daniel McLaughlin)

**India-based Research Projects for REU Scholars:**

Project 9*: Chemical and Microbial Water Quality in India (Drs. Peter Vikesland and Amy Pruden, Virginia Tech, USA) and (Dr. Indumathi Nambi, Indian Institute of Technology, Madras)
Project 10*: PIRE Research Opportunity (Drs. Peter Vikesland and Amy Pruden, Virginia Tech, USA) and Dr. Indumathi Nambi, Indian Institute of Technology, Madras)

*REU scholars will spend the first week and the last 3 weeks of the 10-week program at Virginia Tech and the remaining 6 weeks at the Indian Institute of Technology, Madras.