

Call for Applications: National Science Foundation Research Experiences for Undergraduates Summer Program in Molecular Biotechnology and Genomics at Iowa State University

Grantor: Iowa State University

Closes: 3/1/2012

Maximum: \$4,900.00

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The program seeks to attract undergraduate students from academic institutions that serve minority populations and from small liberal arts colleges where scientific research opportunities are not readily available. Additionally, this program will actively recruit students who are veterans and members of the National Guard or Reserves.

Outstanding students who have finished their freshmen, sophomore or junior years and who have interest in research careers will join a selected group of active faculty conducting full-time laboratory research on molecular biology, biotechnology and genomics of animals, microbes and plants.

Typical projects will include gene cloning and characterization, functional genomic analyses, expression of foreign genes in bacteria, plants and animals, molecular genetics, and analysis of proteomes and transcriptomes.

Several activities outside the laboratory setting will be offered. These structured activities will include bioethics training through lectures, practical exercises, and case studies, as well as weekly seminar and discussion sessions with scientists on different research problems and career options.). The students will also have the opportunity to visit public and private research institutions (such as Pioneer HiBred International and others) and interact with Iowa family farmers to experience rural life.

The program will place emphasis on enhancing students' abilities in critical thinking, problem solving and scientific communication (both written and oral targeted to the general public and scientific communities).

The impact of summer research training will be assessed through formal evaluations during and immediately after the training. In addition, students will have an opportunity to assess the program utilizing a common assessment tool that other REU Program Directors use. Informal contacts by mentors with the students will be used to monitor progress and career decisions of the students.

2012 Program Highlights

Program duration: May 29 (Tuesday) - August 4 (Saturday), 2012.

Stipend: \$4,400 for the program (income is taxable). Research assistants are expected to work 40 hours per week.

Travel: Up to \$500 for documented travel expenses.

Housing and living allowance: Program participants will stay on campus in a dormitory. Free campus housing and a generous subsistence allowances will be provided. The costs of some optional planned recreation activities are borne by the students.

Application Deadline: March 1st, 2012

Contact Information:

NSF Summer Program in Molecular Biotechnology and Genomics

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