

SFI Research Experiences for Undergraduates 2005

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RESEARCH EXPERIENCES FOR UNDERGRADUATES AT THE SANTA FE INSTITUTE SUMMER 2005 PROGRAM ANNOUNCEMENT

Description:

Undergraduate students work with faculty mentors on an individual research project focused on some aspect of complex systems. SFI's broad program of research is aimed at understanding both the common features of complex systems and at comprehending the enormous diversity of specific examples. Possible focus areas include adaptive computation; computational aspects of complexity; energy and information in biological computation; scaling laws in complex phenomena; network structure and dynamics; robustness and innovation in biological and social systems; and the dynamics of human social interactions including state and market formation, economics as a complex system, and the evolution of language.

This program is highly individualized. Each student works with one or more faculty mentors on a specific, mutually selected project. The project may be based on a suggestion from the SFI mentor, an idea from the student intern, or a combination of the two. The initial weeks of the program will be devoted to meeting potential mentors and determining the choice of project.

Participants are expected to be in residence approximately 10 weeks, within an early-June to mid-August time frame.

Support:

Housing and a partial board plan will be provided, at no cost to the student, in single-occupancy rooms with shared bathrooms at St. John's College. Modest living stipends will also be provided to interns during their stay, along with some support of round-trip travel expenses from the home institution. Because Santa Fe lacks a full public transportation system, autos are provided to participants on a shared basis. Those interns who can bring their private transportation are

urged to do so.

Eligibility:

Undergraduate students who are citizens or permanent residents of the US are eligible to apply under the guidelines of the National Science Foundation's Research Experience for Undergraduates program. In addition, thanks to modest level of funding from SFI's International Program, some internships for students who are citizens of selected international regions are also eligible to apply.

For the purposes of this program, an undergraduate student is a student who is enrolled in a degree program (part-time or full-time) leading to a bachelor's degree. Students who are transferring from one institution to another and are enrolled at neither institution during the intervening summer may participate. College seniors graduating in 2005 are not eligible for this program; nor are graduating high school students who have not yet enrolled as undergraduates.

Mathematical or computational skills or experience (particularly knowledge of the rudiments of the Unix operating system and/or a programming language, such as C) are favorably considered.

To Apply:

For further details about SFI's Research Experience for Undergraduates program, including full eligibility and application requirements, please visit our website at <http://www.santafe.edu/reu05.html>.

Deadline:

All application materials must be received at SFI no later than February 18, 2005.

Women and minorities are especially encouraged to apply.

For further information about the program, please e-mail reinfo@santafe.edu, or call (505) 946-2746.

The Santa Fe Institute is an equal opportunity employer.