

Application for IGERT Fellowship 2004/2005

Students currently enrolled in a graduate program at Northwestern University and interested in research in *Interdisciplinary Nonlinear Science* are invited to apply for an IGERT fellowship in *Dynamics of Complex Systems in Science and Engineering*.

IGERT fellows

- receive a stipend of \$30,000 for 12 months.
- receive additional funding for 3 to 6 month internships at academic, government, or industrial institutions
- can apply for funding for conference travel

IGERT fellows

- are expected to be active members in the interdisciplinary nonlinear science community at Northwestern, which includes regular attendance of the *Interdisciplinary Seminar in Nonlinear Science*, the *Graduate Student Seminar*, the *brown-bag lunches*.
- who are still junior fellows (not yet advanced to candidacy) are expected to take the Nonlinear Science Course *Interdisciplinary Nonlinear Dynamics* (lectures and projects)
- who are senior fellows are involved in thesis research in a nonlinear science topic that is interdisciplinary and co-supervised by two faculty members; they contribute to the *Graduate Student Seminar* series, and engage in 3 to 6 months internships in industry or at another academic institution.

NOTE: The academic year 2004/2005 is the fifth year of the current 5-year IGERT grant. Any funding beyond this academic year depends on the availability of funding at that time.

Name:

Department:

at NWU since:

Advisors:

Previous IGERT funding:

Signature:

Submit your application material **electronically as a pdf-file** by Monday, May 17, 2004, to complex-systems@northwestern.edu.

Please note that NSF requires that IGERT fellowship recipients be U.S. citizens or permanent residents.

— over —

Initial IGERT applications for graduate students already at Northwestern should include:

- a CV that includes all material relevant to the application.
- unofficial transcripts or records of completed classes and grades.
- a 1-2 pages proposal detailing the student's interest in the interdisciplinary program. This proposal should include a description the student's research interests and a discussion of plans for interdisciplinary thesis research in nonlinear science and for a internship.
- a brief summary of previous research, if applicable.
- a letter from the student's thesis advisor(s) that specifically addresses the interdisciplinary nature of the planned thesis research, the benefits that will ensue from co-advising the students on this topic, and a proposal for a 3 to 6 months internship. Junior students who do not yet have a thesis advisor should provide a letter of recommendation from one of the Nonlinear Science Advisors. Any faculty member who participates in the IGERT program can serve in this capacity; a current list is available at our web site.

Renewal IGERT Applications for current members of the program should include:

- unofficial transcripts or records of completed classes and grades.
- a 1-2 pages report describing the progress of the student's interdisciplinary nonlinear science research, the educational benefits derived from participation in the program's activities, the student's own contributions to the program, and the plans for an internship.

Note: Please make sure to address the requirement that the thesis research be **interdisciplinary** and **co-advised** by two faculty members who are both seriously involved in the project.

Both kind of application procedures may include a brief interview by the selection committee.