

SELECTED CROSS-CUTTING PROGRAMS

NSF Cross-cutting programs include interdisciplinary programs, programs that are supported by multiple Directorates, and programs jointly supported by NSF and other Federal agencies. Examples of major Cross-cutting activities include the following:

- **ADVANCE:** A budget of \$19.80 million for ADVANCE in FY 2006 will fund Partnerships for Adaptation, Implementation, and Dissemination Awards to support the analysis, adaptation, dissemination and use of existing innovative materials and practices that have been demonstrated to be effective in increasing representation and participation of women in academic science and engineering careers. These awards seek to broaden the impact of institutional transformation efforts, and to expand the network of institutions and individuals who are equipped with knowledge about the institutional factors underlying the underrepresentation of women in academic science and engineering. In addition, support for ongoing awards for institutional transformation will be continued.
- **Faculty Early Career Development (CAREER):** FY 2006 funding for CAREER awards total \$133.79 million, an increase of \$2.40 million above the FY 2005 Current Plan of \$131.39 million. CAREER awards support exceptionally promising college and university junior faculty who are committed to the integration of research and education and who are most likely to become the academic leaders of the 21st Century. This increase will support approximately five new awards.
- **Graduate Fellowships and Traineeships:** The FY 2006 budget provides \$215.69 million, an increase of \$300,000 over FY 2005, for NSF's three flagship graduate fellowship and traineeship programs. This funding will support an estimated 4,600 graduate students across NSF.
 - \$96.63 million for the Graduate Research Fellowship (GRF) program to support graduate students in all STEM fields. FY 2006 funding will support approximately 2,280 fellows.
 - \$69.07 million for the Integrative Graduate Education and Research Traineeship (IGERT) program to support comprehensive Ph.D. programs that are innovative models for interdisciplinary education and research, and that prepare students for academic and non-academic careers. FY 2006 funding will support approximately 1,385 IGERT trainees.
 - \$49.99 million for the Graduate Teaching Fellowships in K-12 Education (GK-12) program to strengthen partnerships between higher education institutions and local school districts by providing universities the opportunity to become engaged with a program that features outreach to K-12 schools in a manner that benefits both their teachers and students. FY 2006 funding will support approximately 935 graduate fellows.
- **Research Experiences for Undergraduates (REU):** The FY 2006 Request for NSF's REU program totals \$53.69 million, an increase of \$2.57 million above the FY 2005 Current Plan of \$51.12 million. The REU program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU Sites involve students in research who might not otherwise have the opportunity, particularly those from institutions where research programs are limited. A significant fraction of the student participants come from outside the host institutions.

- Research Experiences for Teachers: (RET): The FY 2006 Request for NSF's RET program totals \$8.45 million, an increase of \$2.0 million above the FY 2005 Current Plan of \$6.45 million. Funding will provide additional pre-service and in-service K-12 teachers with discovery-based learning experiences.