

SELECTED CROSSCUTTING PROGRAMS

NSF crosscutting programs include interdisciplinary programs and programs that are supported by multiple directorates. Examples of major crosscutting activities include the following:

- **ADVANCE:** A budget of \$19.72 million for ADVANCE in FY 2007, an increase of \$90,000 over the FY 2006 Current Plan, will fund new and continuing efforts to address the systemic barriers to women's full participation in academic science and engineering. Included in the 2007 portfolio will be evaluation and assessment efforts to capture the impact of prior ADVANCE awards and to build upon effective practices, as well as new awards for Partnerships for Adaptation, Implementation, and Dissemination (PAID). PAID awards seek to broaden the impact of institutional transformation efforts and to expand the network of institutions and individuals who are equipped with knowledge and strategies to address institutional factors underlying the underrepresentation of women in academic science and engineering.
- **Faculty Early Career Development (CAREER):** The FY 2007 Request for CAREER totals \$149.46 million, an increase of \$3.54 million over the FY 2006 Current Plan of \$145.92 million. This funding will result in approximately 20 more CAREER awards than in FY 2006. 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 academic leaders.
- **Graduate Fellowships and Traineeships:** The FY 2007 Request provides \$218.72 million, an increase of \$9.29 million over the FY 2006 Current Plan, for NSF's three flagship graduate fellowship and traineeship programs. This funding will enable NSF to support an estimated 4,665 graduate students.
 - \$96.09 million for the Graduate Research Fellowship (GRF) program, an increase of \$2.73 million above the FY 2006 Current Plan, will support graduate students in all STEM fields. Funding will support an estimated 2,280 fellows.
 - \$66.97 million for the Integrative Graduate Education and Research Traineeship (IGERT) program, an increase of \$1.55 million above the FY 2006 Current Plan, will support comprehensive Ph.D. programs that are innovative models for interdisciplinary education and research and that prepare students for academic and non-academic careers. Funding will support an estimated 1,385 IGERT trainees.
 - \$55.66 million for the Graduate Teaching Fellowships in K-12 Education (GK-12) program, an increase of \$5.01 million above the FY 2006 Current Plan, will 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. Funding will support an estimated 1,000 graduate fellows.
- **Research Experiences for Undergraduates (REU):** The FY 2007 Request for NSF's REU program totals \$56.92 million, an increase of \$1.10 million above the FY 2006 Current Plan of \$55.82 million. The REU program supports active research participation by undergraduate students in any area of research funded by the NSF. It is effective in attracting undergraduate students to graduate study. 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 2007 Request for NSF's RET program totals \$8.51 million, an increase of \$120,000 above the FY 2006 Current Plan of \$8.39 million. Funding will provide pre-service and in-service K-12 teachers with discovery-based learning experiences.

