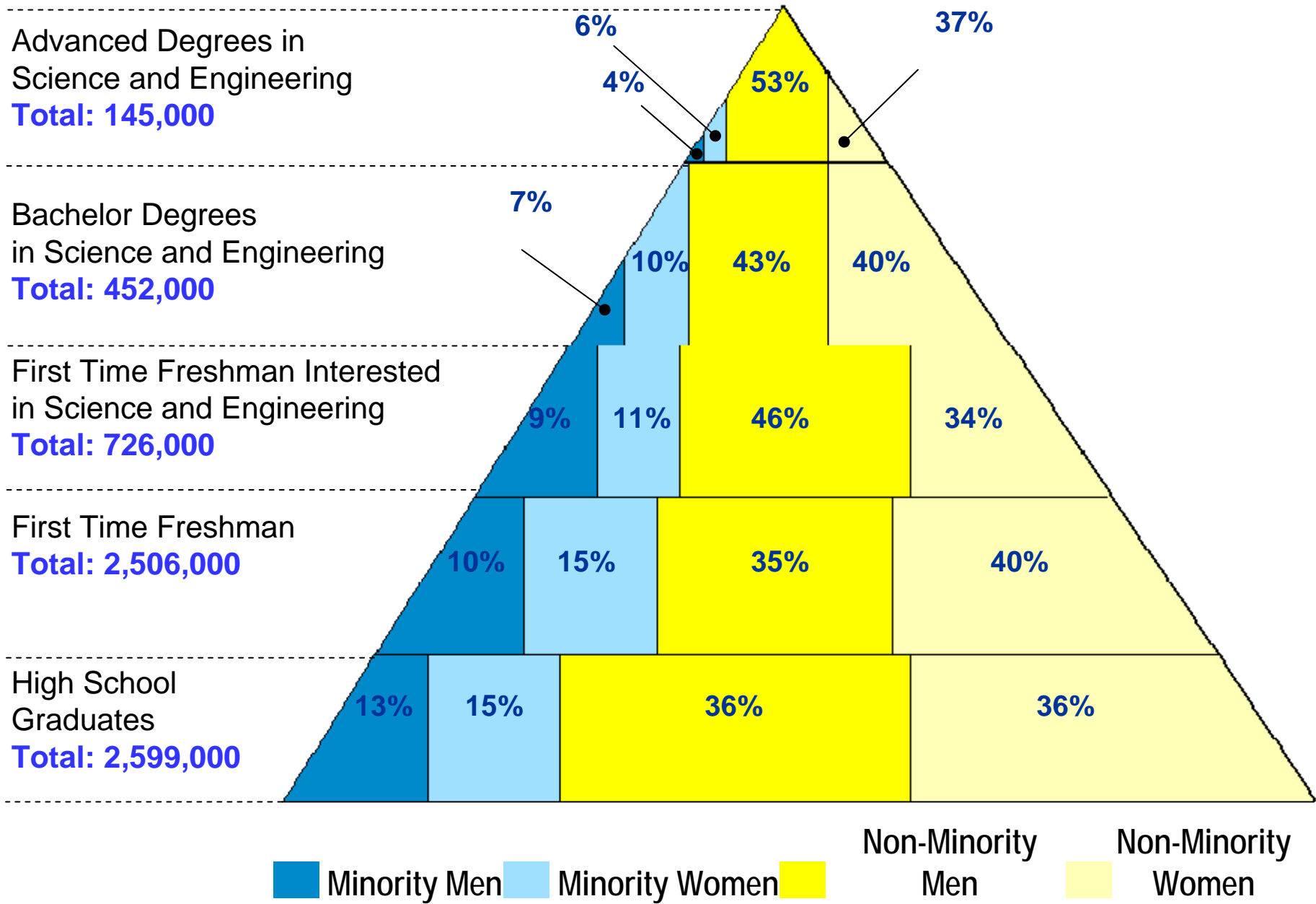




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Milestones in Higher Education





Of the 358,000 faculty in U.S
16,000 are African American
12,900 are Hispanic
2,100 are American Indian

Of the 63,000 S&E Assistant
Professors

2,600 are African American
2,900 are Hispanic
600 are Native American

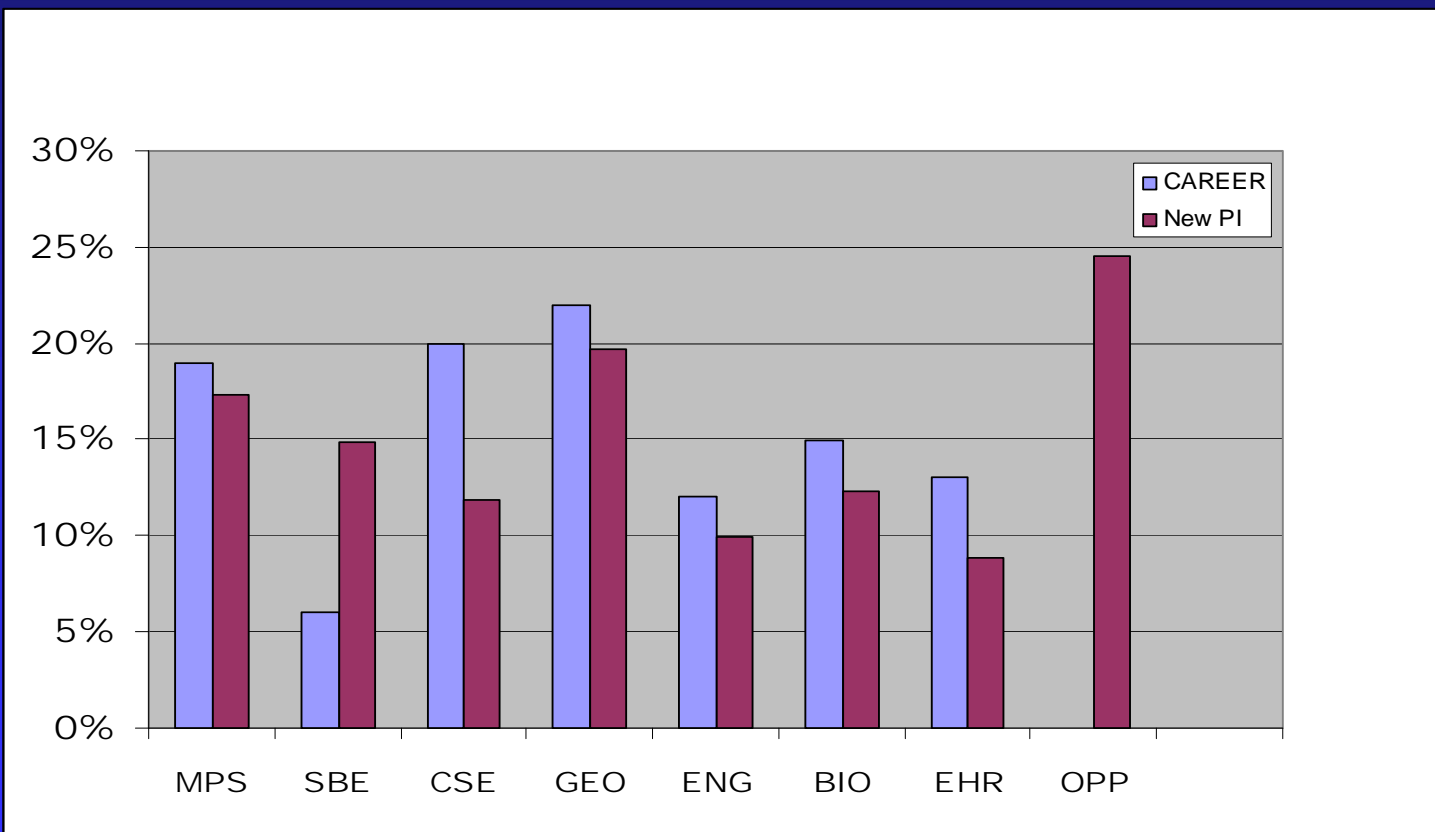


Support for New Investigators

- All NSF programs support young investigators as part of the regular program.
- About 2/3rds of new investigators are supported by regular program.
- Some Directorates have special programs for young investigators
 - BIO Research initiation Awards



New investigators: CAREER vs Other awards





CAREER Is NSF Wide

- ❑ Almost 4,000 CAREER awards in the past ten years
- ❑ All Directorates and about 180 programs accept CAREER Proposals
- ❑ 200 PECASE Awards at NSF



CAREER 2007 Proposals

- 2,600 + reviewed proposals

	Props	Awards
◆ ENG	800	132
◆ MPS	620	126
◆ CISE	500	109
◆ BIO	360	39
◆ GEO	96	21
◆ EHR	56	11
◆ SBE	111	20
◆ OPP	3	0



What Is Special About CAREER

- ❑ NSF's most prestigious award for young faculty.
- ❑ The size and duration of CAREER awards are commensurate with the award's prestige.
- ❑ The Presidential Early Career Awards for Scientists and Engineers (PECASE) are selected from this group.



CAREER Program Goals

- Provide stable support at a sufficient level and duration for outstanding new teacher-scholars in the context of the mission of their organization.
- Build a foundation for a lifetime of integrated contributions to research and education



CAREER Goals

- ❑ Increase participation of those traditionally underrepresented in science and engineering.
- ❑ Provide incentives to Universities to value the integration of research and education



Eligibility Criteria: who can apply

At the time of proposal submission

- ❑ Hold a doctoral degree in a field supported by NSF
- ❑ Be untenured,
- ❑ Hold title Assistant Professor
- ❑ Have not previously received an NSF PECASE or CAREER award
- ❑ Have not had more than two CAREER proposals reviewed



Eligibility Criteria

By October 1st following the CAREER deadline the PI must be:

- ❑ Employed in a tenure-track (or equivalent) position at an eligible institution as an Assistant Prof.
- ❑ Associate Professors without tenure are NOT eligible.
- ❑ IF someone gets tenure or promoted after Oct 1, OK.



Institutional Eligibility

- All Institutions of Higher Education are eligible
- NSF encourages Assistant Professors from Community College, Minority Serving and Undergraduate Colleges to apply



What needs to be in a proposal

- ❑ A description of the proposed research, including preliminary data where appropriate, specific objectives, methods and procedures, expected significance of the results.
- ❑ A review of relevant literature
- ❑ A description of the proposed educational activities
- ❑ A description of how the research and educational activities are integrated
- ❑ Results of prior NSF work if applicable.



Departmental Endorsement

Must include the statement:

I have read and I endorse this career development plan. I attest that the PI's career development plan is supported by and integrated into the educational and research goals of the department and the institution. I personally commit to the support and professional development of the PI."



Departmental Endorsement

- A description of the support that the department and/or institution will provide.
- Verification of the CAREER eligibility information that the PI self-certifies in the application process.



CAREER personnel and budgets

- No co-principal investigators are allowed
- Consultants, subawards are allowed
- Some programs will support buy out of academic year time (check)



CAREER Award Size

- ❑ CAREER minimum award size is \$400,000, except for BIO (minimum award size is \$500,000)
- ❑ All CAREER awards are 5 years
- ❑ For many programs, this is large; for all programs it is a long award



- ❑ Successful CAREER proposals are consistent with Program Goals
 - ❑ Proposals are submitted to a disciplinary unit or program
 - ❑ CAREER proposals are reviewed by Programs under program guidelines.
 - ❑ Sometimes reviewed in same panel; often by same reviewers as regular grants.



Review of Proposals

- Intellectual Merit
- Broader Impact



Other review considerations

- ❑ Departmental endorsement
- ❑ Consistency of scope of education/research and award size and duration.
- ❑ Consistency with disciplinary program research and ed goals



Success Rates

- NSF-wide - Success Rates for Men, Women and Minorities are similar
- NSF-wide Success Rates (incl. CAREER) declined in the period of 2001-2005 but is now slightly up
- Funding rates for CAREER varies by Directorate - follows trend for regular proposals



Success Rates

□ Highly Competitive Program

FY 2001 23%

FY 2002 23%

FY 2003 20%

FY 2004 20%

FY 2005 16%

FY 2006 16%

FY 2007 18%



Due Dates

- July 21
 - ◆ BIO, CISE and EHR
- July 22
 - ◆ Engineering
- July 23
 - ◆ GEO, MPS, SBE and OPP