

Women, Minorities, and Persons with Disabilities in Science and Engineering: 2011



Division of Science Resources Statistics ■ Directorate for Social, Behavioral, and Economic Sciences
National Science Foundation

Women, Minorities,
and Persons with Disabilities
in Science and Engineering: **2011**



About this Report

Women, Minorities, and Persons with Disabilities in Science and Engineering provides statistical information about the participation of women, minorities, and persons with disabilities in science and engineering education and employment. Its primary purpose is to serve as an information source. It offers no endorsement of or recommendations about policies or programs. National Science Foundation reporting on this topic is mandated by the Science and Engineering Equal Opportunities Act (Public Law 96-516).

This digest, new for 2011, highlights key statistics drawn from the wide variety of data sources used to provide this information. Data and figures in this digest are organized into six topical areas—enrollment, field of degree, employment status, occupation, academic employment, and persons with disabilities. These are presented dynamically online at <http://www.nsf.gov/statistics/wmpd/>, where the presentation provides access to a rich set of associated resources, described at the end of this digest. Readers are invited to explore the website for more detailed information on these topics.

Surveys conducted by the Science Resources Statistics division of the National Science Foundation provided a large portion of the data used in this report. During the report's production, the America COMPETES Reauthorization Act of 2010 was signed into law. Section 505 of the bill renames the Division of Science Resources Statistics as the National Center for Science and Engineering Statistics (NCSES). The new name signals the central role of NCSES in the collection, interpretation, analysis, and dissemination of objective data on the science and engineering enterprise.

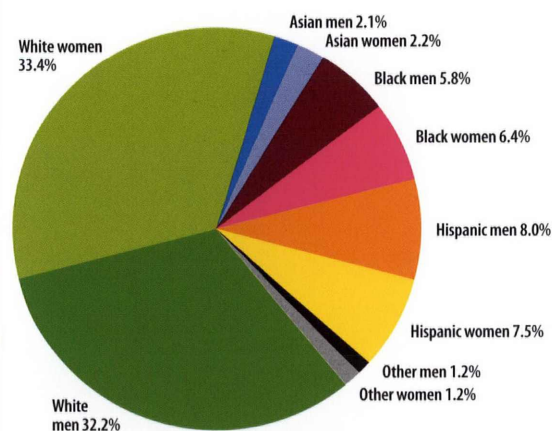
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Introduction

Women, persons with disabilities, and three racial/ethnic groups—blacks, Hispanics, and American Indians—are considered underrepresented in science and engineering because they constitute smaller percentages of science and engineering degree recipients and of employed scientists and engineers than they do of the population. Asians are not considered underrepresented because they are a larger percentage of science and engineering degree recipients and of employed scientists and engineers than they are of the population. Subgroups of Hispanics and Asians may vary in terms of under- or overrepresentation in science and engineering.

Resident population of the United States, by sex and race/ethnicity: 2008



NOTE: Hispanic may be any race. Other includes American Indian/Alaska Native, Native Hawaiian/Other Pacific Islander, and multiple race.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

Women were slightly more than half of U.S. residents in 2008. Blacks and Hispanics were 12% and 15%, Asians were 4%, and other racial/ethnic groups combined (American Indians/Alaska Natives, Native Hawaiians/Other Pacific Islanders, and multiple race) constituted 2% of the U.S. population in 2008. According to the latest Census Bureau projections, minorities will be about half of the resident United States population by 2050. The largest growth is projected in the numbers of Hispanics and Asians. Despite increasing numbers, blacks are projected to remain 12% of the population from 2010 to 2050. The number of whites is projected to remain about the same in 2050 as in 2010 and their percentage of the population is projected to decrease.

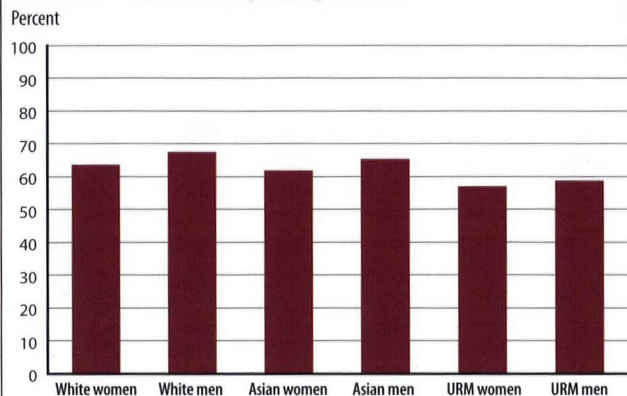
Hispanic women were the largest group of minority women in the United States in 2008. Hispanic women constituted 8%, black women 6%, and Asian women 2% of the U.S. population. Women of all other minority racial/ethnic groups combined (American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, and multiple race) were 1% of the U.S. population. White women made up one-third of the U.S. population.

Estimates of the proportion of the population with disabilities vary depending on the definition of the term “disability.” These disabilities may or may not require accommodation or limit an individual’s ability to participate in educational experiences or be productive in an occupation. According to the Census Bureau’s American Community Survey, 12% of the U.S. population has some disability.

Representation of these groups in science and engineering education and employment differs from their representation in the U.S. population. Differences in participation of men and women, various racial/ethnic groups, and persons with and without disabilities are rooted in differences in current and historic participation in science and engineering higher education, as well as differences in educational attainment and in precollege course taking and achievement.

A Women are less likely than men to enroll full time as undergraduates. Underrepresented minorities (blacks, Hispanics, and American Indians) are less likely than whites and Asians to enroll full time.

Full-time enrollment among undergraduates: 2008

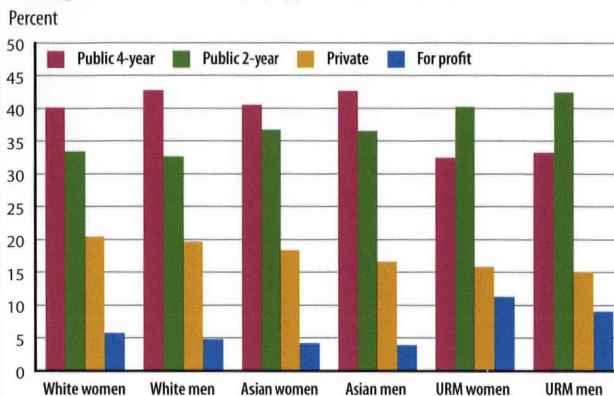


URM = underrepresented minority.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

B Underrepresented minorities enroll in disproportionately higher numbers in public 2-year colleges and, along with women, in for-profit academic institutions.

Undergraduate enrollment, by type of school: 2008

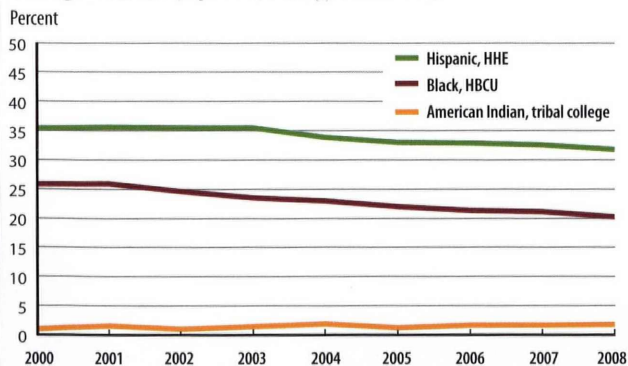


URM = underrepresented minority.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

C Minority academic institutions enroll a substantial fraction of minority undergraduates, although the percentage of blacks earning science and engineering bachelor's degrees from HBCUs and the percentage of Hispanics earning S&E bachelor's from high Hispanic enrollment institutions has declined over time. Tribal colleges, which mainly offer 2-year degrees, award only a small fraction of S&E bachelor's degrees to American Indians.

Minorities earning science and engineering bachelor's at minority-serving institutions, by institution type: 2000-08

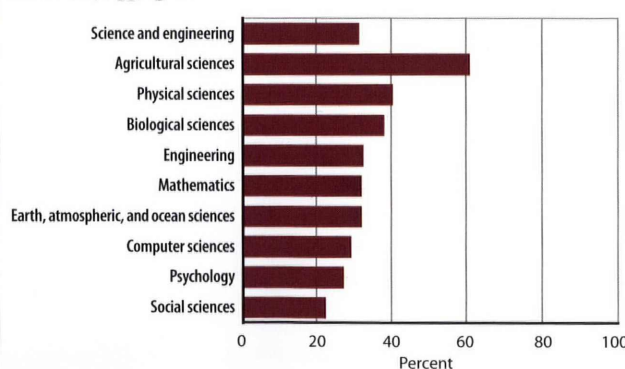


HBCU = historically black college or university; HHE = high Hispanic enrollment.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

D HBCUs are important baccalaureate-origin institutions of future black science and engineering doctorate recipients.

Black doctorate recipients with HBCU baccalaureate origins, by field: 2004-08, aggregate



HBCU = historically black college or university.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

Recent trends in undergraduate enrollment reflect growth in and the changing composition of the U.S. college-age population. Most notably, underrepresented minorities are an increasing fraction and whites are a decreasing fraction of undergraduate students. Among all racial/ethnic groups, more women than men enroll in college.

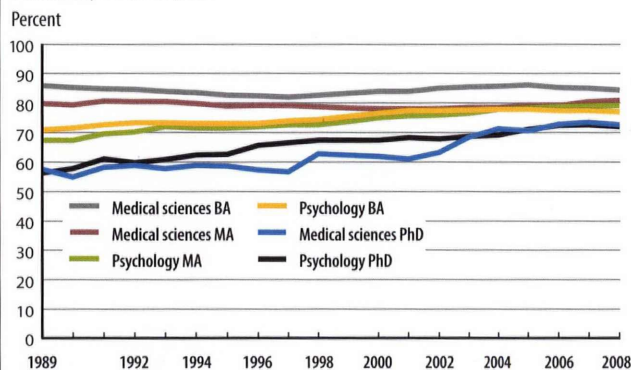
Field of Degree

Women

Overall, more women than men graduate from college with a bachelor's degree; however, men earn a higher proportion of degrees in many science and engineering fields of study. Women's level of participation among these fields varies, but within fields it is consistent over every level of degree.

A In most fields women's participation has risen over the two decades that ended in 2008. The general increase in the share of degrees women earn reflects rising numbers of degrees for women and level or declining numbers earned by men. Women's participation is highest in psychology and medical sciences.

High participation fields for women: Psychology and medical sciences, 1989–2008

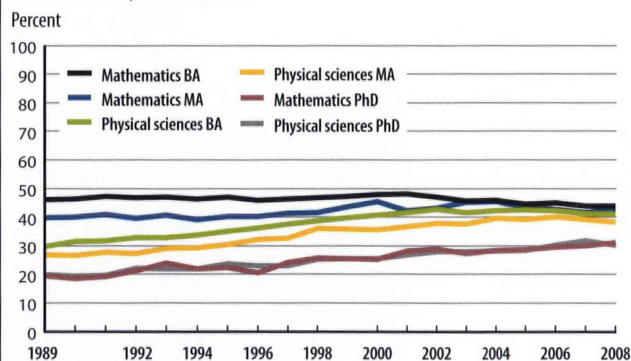


NOTE: Data not available for 1999.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

C Compared with men, women earn degrees at medium to low levels in physical sciences and mathematics. Growth in women's share of mathematics degrees at the master's and bachelor's levels has not kept pace with growth at the level of the doctorate.

Medium-low participation fields for women: Physical sciences and mathematics, 1989–2008

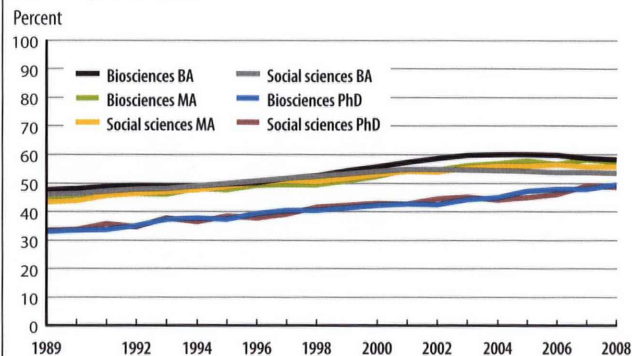


NOTE: Data not available for 1999.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

B In the 20 years since 1989 women's participation in the social sciences and in biosciences has increased at all degree levels. In the last 5 years, this growing trend has stabilized at the master's and bachelor's levels.

Medium participation fields for women: Biosciences and social sciences, 1989–2008

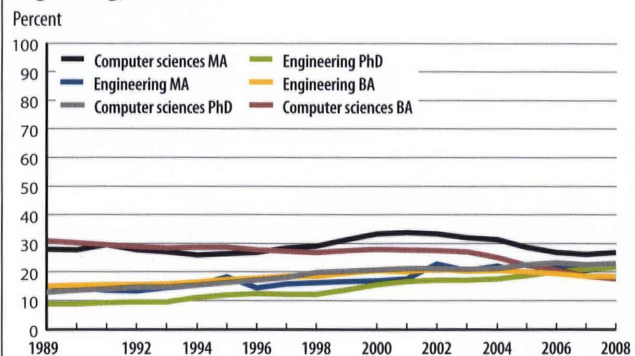


NOTES: Data not available for 1999. Social sciences excludes psychology.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

D Women's participation is lowest in engineering and computer sciences. In the 20 years since 1989, however, the proportion of women in engineering has increased, mostly at the master's and doctoral levels. Women's participation in computer sciences has increased at a rapid rate at the doctoral level (although numbers remain small) but has declined at the bachelor's level.

Low participation fields for women: Computer sciences and engineering, 1989–2008



NOTE: Data not available for 1999.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

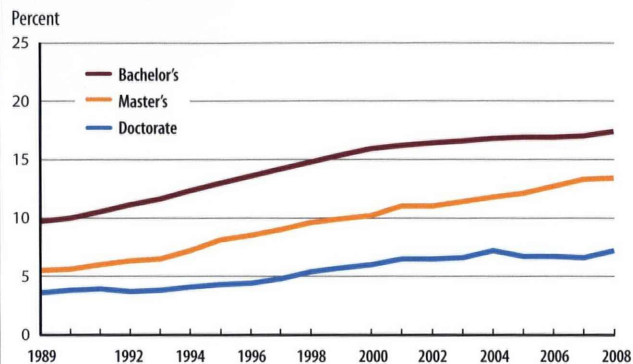
Field of Degree

Minorities

Underrepresented minorities—blacks, Hispanics, and American Indians—are less likely than whites to attend college or to graduate, but for those who do graduate, the degree patterns are similar to those of whites.

A Underrepresented minorities' shares of science and engineering bachelor's and master's degrees have been rising over the two decades since 1989, with shares of doctorates in these fields flattening after 2000.

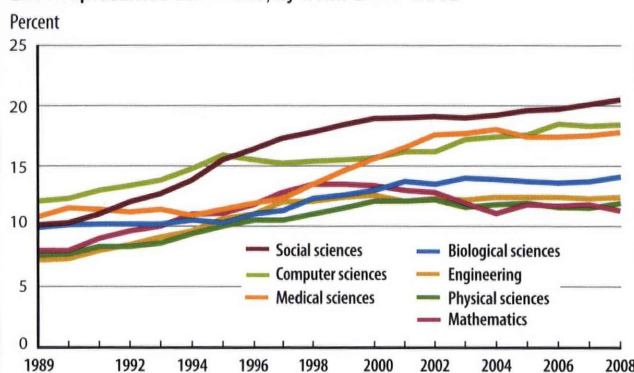
Science and engineering degrees earned by underrepresented minorities: 1989–2008



NOTE: Data not available for 1999.
SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

B The greatest rise in science and engineering bachelor's degrees earned by underrepresented minorities has been in the social, computer, and medical sciences fields of study.

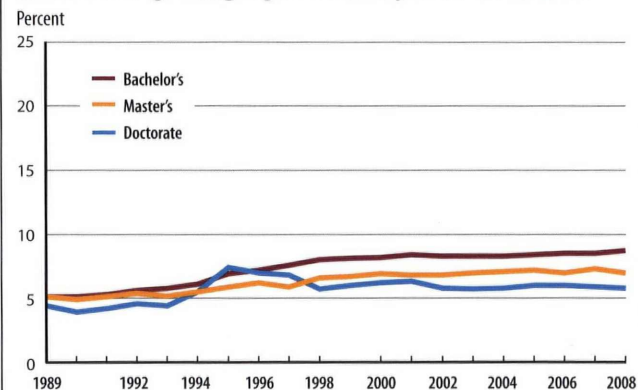
Science and engineering bachelor's degrees earned by underrepresented minorities, by field: 1989–2008



NOTE: Data not available for 1999.
SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

C Asian U.S. citizens and permanent residents' shares of all science and engineering degrees are roughly similar for bachelor's, master's, and doctoral degrees. Their shares of science and engineering degrees at all levels rose slightly in the 1990s but have been steady over the past decade.

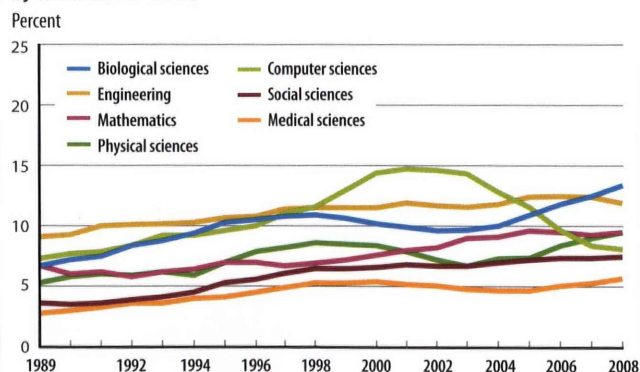
Science and engineering degrees earned by Asians: 1989–2008



NOTE: Data not available for 1999.
SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

D Although Asians' share of science and engineering degrees has been steady over the past decade, major share shifts by field have occurred in bachelor's degrees: most pronounced are a drop in computer sciences and rises in physical and biological sciences.

Science and engineering bachelor's degrees earned by Asians, by field: 1989–2008



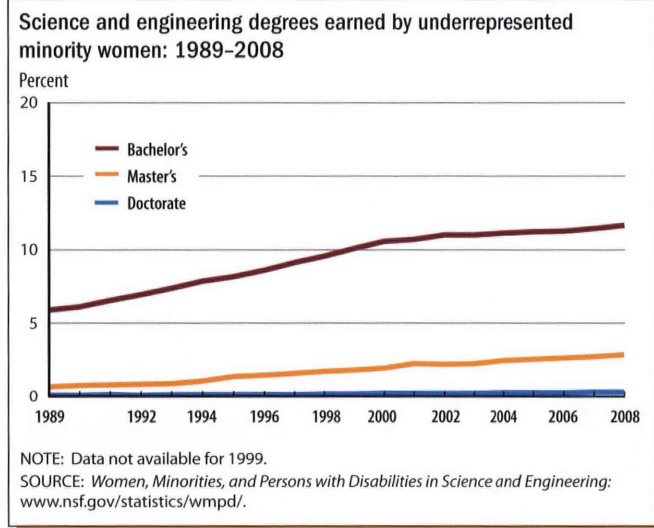
NOTE: Data not available for 1999.
SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

Field of Degree

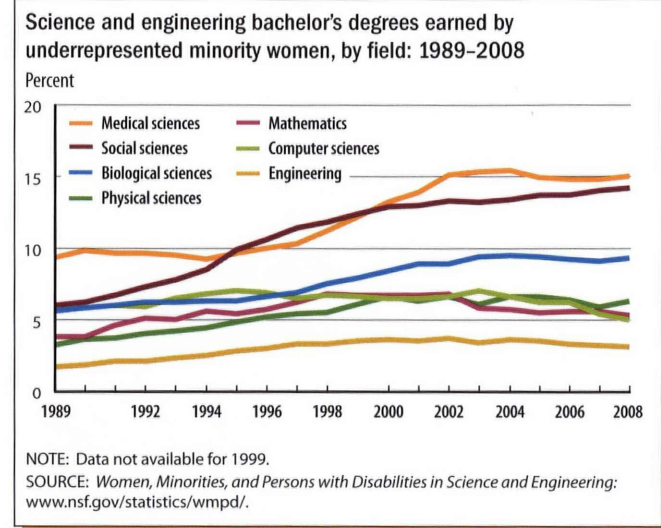
Minority Women

In 2008 underrepresented minority women earned more than half but white and Asian women earned less than half of science and engineering degrees awarded to their respective racial/ethnic groups.

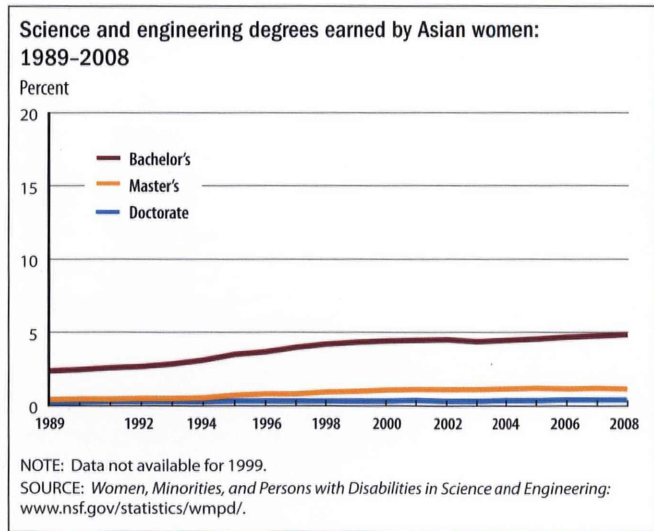
A The share of bachelor's degrees earned by underrepresented minority women is far larger than their shares of master's or doctoral degrees, regardless of field of study.



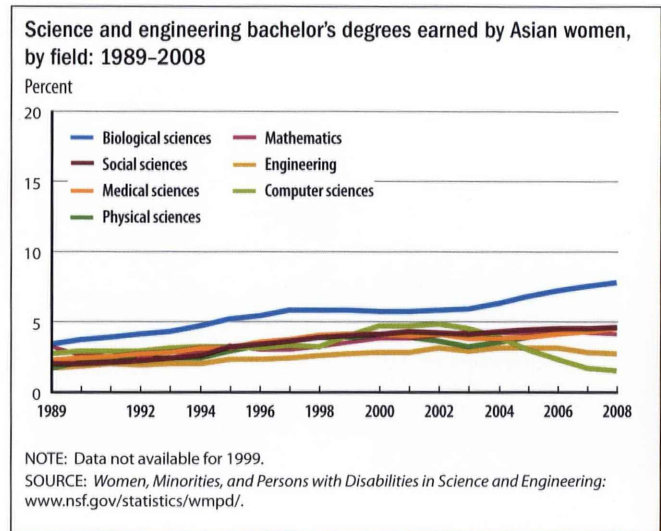
B Underrepresented minority women, like women in general, earn higher proportions of bachelor's degrees in medical sciences and social sciences and lower proportions of bachelor's degrees in computer sciences and engineering.



C Like women generally, Asian women earn a higher proportion of bachelor's degrees than they do of master's degrees or doctorates. Asian women's shares of science and engineering degrees at all degree levels have grown only slightly in the last decade.



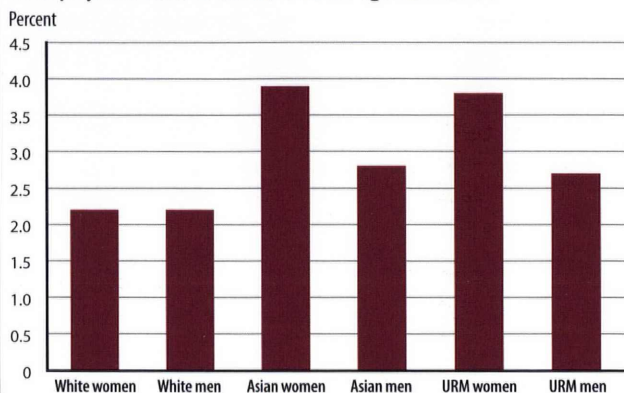
D Asian women, like Asians in general, earn higher and growing percentages of bachelor's degrees in biological sciences and, like women in general, earn lower percentages of bachelor's degrees in engineering.



Variations in the age distributions of men and women in the science and engineering workforce, as well as differing family responsibilities, are reflected in their respective rates of unemployment and part-time employment across racial/ethnic groups.

A Unemployment rates are higher for minority scientists and engineers than for white scientists and engineers and are higher for minority female than for minority male scientists and engineers.

Unemployment rates of scientists and engineers: 2006

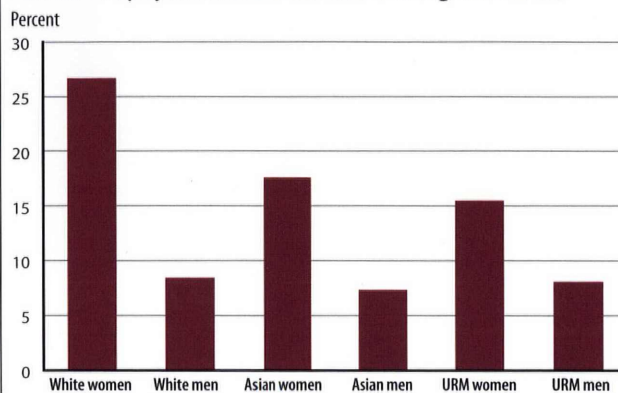


URM = underrepresented minority.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

B Among those employed, a higher percentage of female than of male scientists and engineers in all racial/ethnic groups are employed part time.

Part-time employment rates of scientists and engineers: 2006

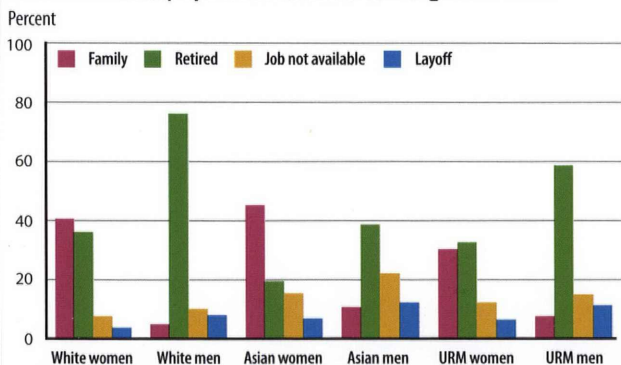


URM = underrepresented minority.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

C Across all racial/ethnic groups, women who were unemployed were far more likely than men to cite family responsibilities and less likely than men to cite retirement as the reason for their unemployment.

Reasons for unemployment of scientists and engineers: 2006

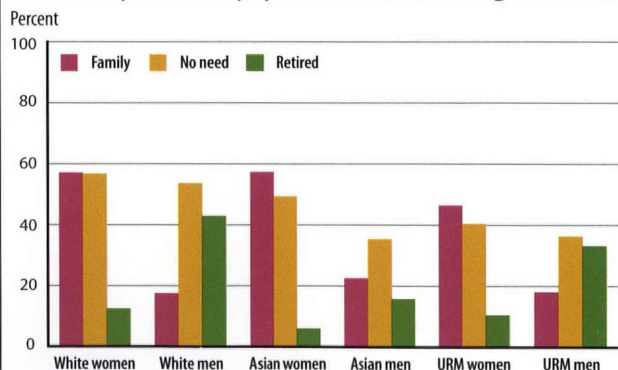


URM = underrepresented minority. Not all reasons are shown; respondents could select more than one reason.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

D Men and women who were employed part time mirrored those unemployed when citing reasons for their part-time employment. Women cited family responsibilities most frequently, whereas with the exception of Asians, men cited retirement more frequently than family responsibilities.

Reasons for part-time employment of scientists and engineers: 2006



URM = underrepresented minority. Not all reasons are shown; respondents could select more than one reason.

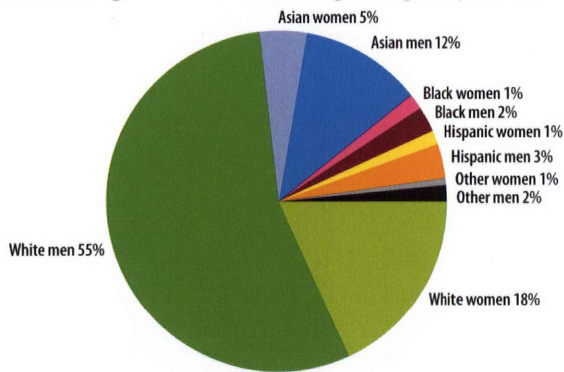
SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

Occupation

The science and engineering workforce is composed of people who earned degrees over roughly three decades. The relatively low percentage of women and minorities in the science and engineering workforce compared with recent science and engineering degree recipients is partly accounted for by women and minorities being a lower percentage of science and engineering degree recipients in previous years.

A The science and engineering workforce is largely white and male. Minority women comprise fewer than 1 in 10 employed scientists and engineers.

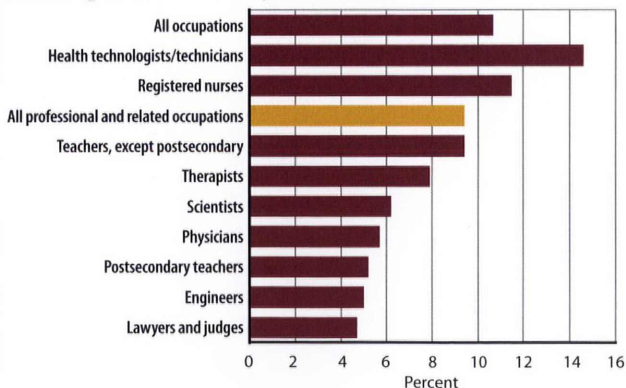
Scientists and engineers in science and engineering occupations: 2006



NOTE: Hispanic may be any race. Other includes American Indian/Alaska Native, Native Hawaiian/Other Pacific Islander, and multiple race.
SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

C Blacks' participation in science and engineering occupations, as well as in all professional and related occupations, is also substantially lower than it is in the U.S. workforce as a whole. Blacks are a smaller percentage of engineers than of scientists.

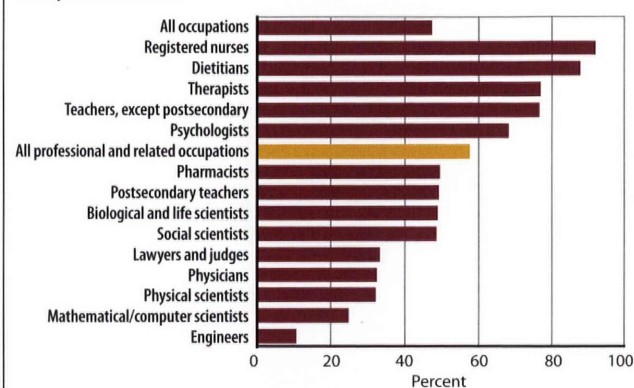
Employed blacks/African Americans 16 years and older as a percentage of selected occupations: 2009



SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

B Women's participation in science and engineering occupations is about half of what it is in the U.S. workforce as a whole and varies greatly by occupation: higher among psychologists and lower among mathematical/computer scientists and engineers. Women continue to constitute the vast majority of those employed in traditionally female occupations, such as nurses.

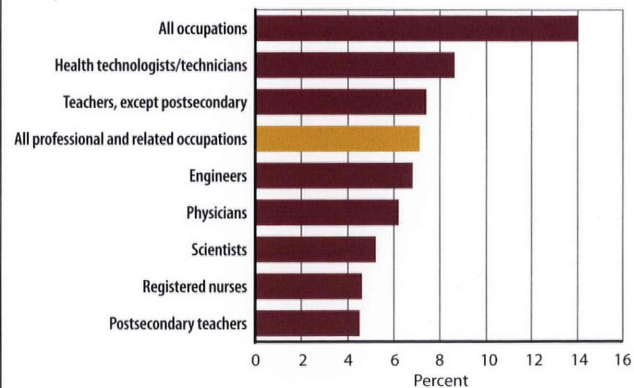
Employed women 16 years and older as a percentage of selected occupations: 2009



SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

D Like blacks, the participation of Hispanics in science and engineering occupations and in professional and related occupations is low in comparison to the U.S. workforce. Hispanics are a smaller percentage of scientists than they are of engineers.

Employed Hispanics 16 years and older as a percentage of selected occupations: 2009

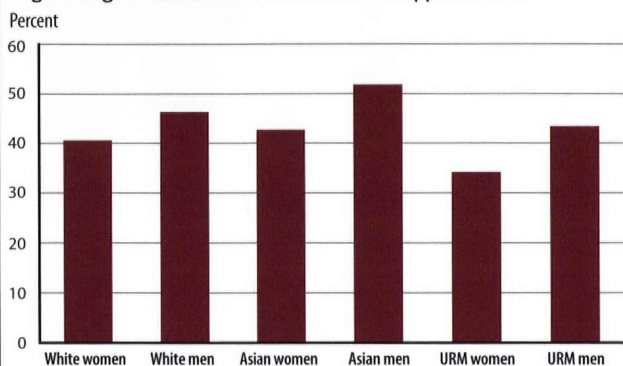


SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

Women and underrepresented minorities in academic employment differ from their male and white counterparts in rank, tenure, and other characteristics.

A Among science and engineering doctorate holders employed full time as full, associate, or assistant professors in 4-year colleges or universities, women are less likely than men to have been supported by federal grants or contracts, and underrepresented minority women are the least likely to have had such support.

Full-time faculty in 4-year institutions who have science and engineering doctorates and receive federal support: 2008

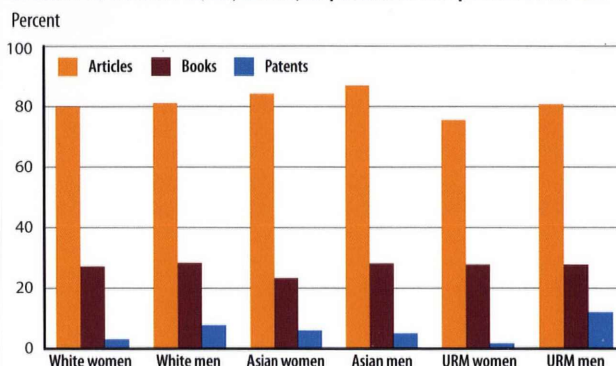


URM = underrepresented minority.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

B Regardless of racial or ethnic group, women and men who hold doctorates in science and engineering fields have shown a similar pattern in publication activity over the 5-year period from 2003 to 2008.

Doctorate holders employed full time in 4-year institutions with one or more refereed articles, books, or patents in the period 2003–08

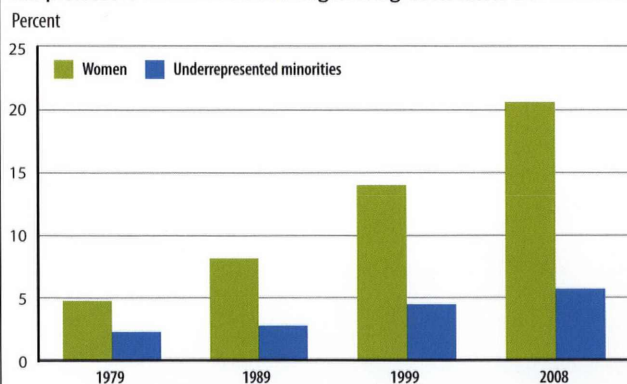


URM = underrepresented minority.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

C The share of full-time, full professorships held by women has risen substantially over time, whereas the share held by underrepresented minorities has risen more slowly and has remained fairly flat in recent years.

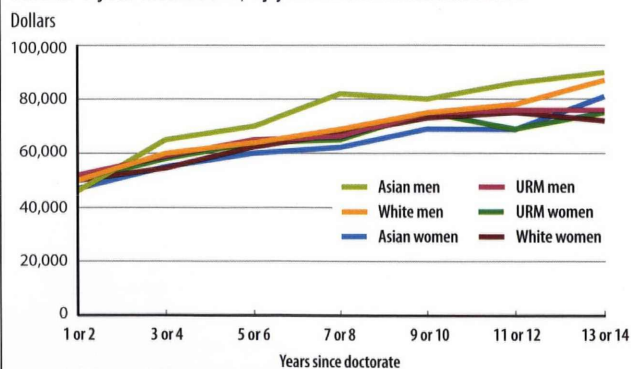
Women and underrepresented minorities as a percentage of full-time, full professors with science and engineering doctorates: 1979–2008



SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

D Among scientists and engineers, women generally earn less than men, and underrepresented minorities generally earn less than their white counterparts. Among science and engineering doctorate holders employed full time in 4-year colleges or universities with similar experience, however, median salaries for men, women, and racial/ethnic groups were more similar.

Median salaries of doctoral scientists and engineers employed full time in 4-year institutions, by years since doctorate: 2008



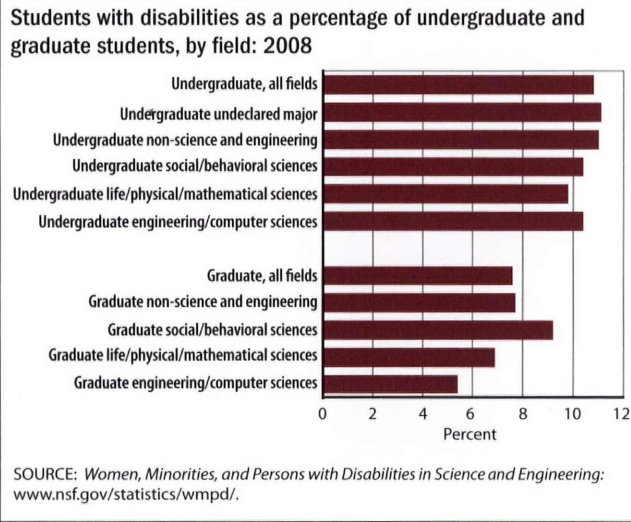
URM = underrepresented minority.

SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*; www.nsf.gov/statistics/wmpd/.

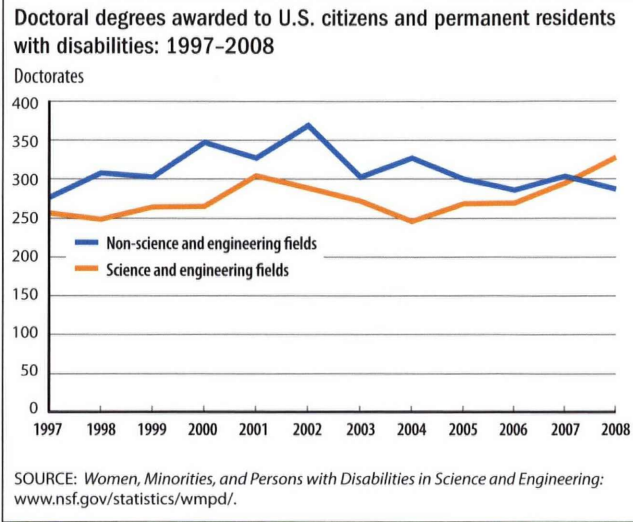
Persons with Disabilities

Disability can occur throughout one's life. Disabilities acquired at birth or at an early age may influence decisions to pursue science and engineering studies; those acquired at later ages may influence opportunities to continue or seek employment. Regardless of when disabilities were acquired, persons with disabilities are underrepresented in the science and engineering workforce compared to the population as a whole.

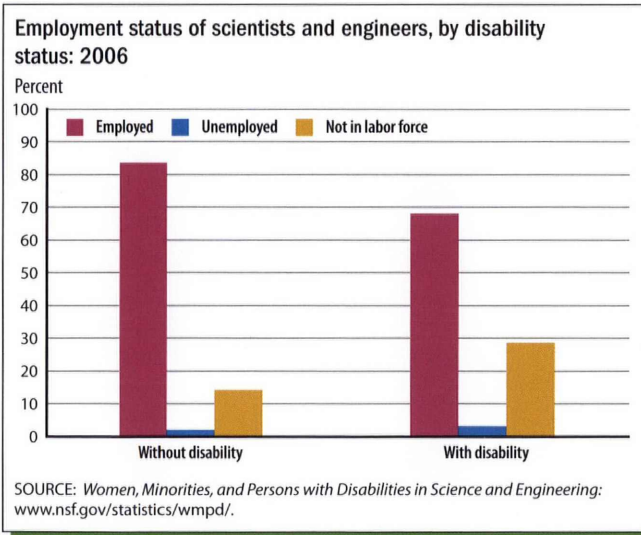
A Students with disabilities are a larger proportion of undergraduate students than of graduate students. At both the undergraduate and graduate levels, students with disabilities were about as likely to major in science and engineering fields as in non-S&E fields.



B U.S. citizens and permanent residents with disabilities earned higher numbers of science and engineering doctorates in 2008 than they did in 1997 and now earn more doctorates in those fields than they do in non-S&E fields.



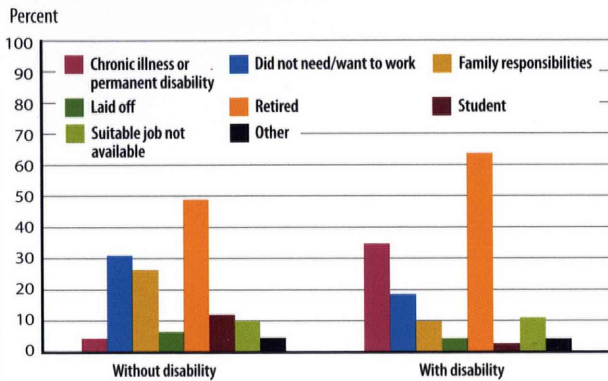
C Scientists and engineers with disabilities are more likely than those without disabilities to be unemployed or out of the labor force.



D

Retirement was the primary reason for not working both for persons with and without disabilities, but for persons with disabilities, chronic illness or permanent disability was also a prevalent reason for not working.

Scientists and engineers who are unemployed or out of the labor force, by reason for not working: 2006

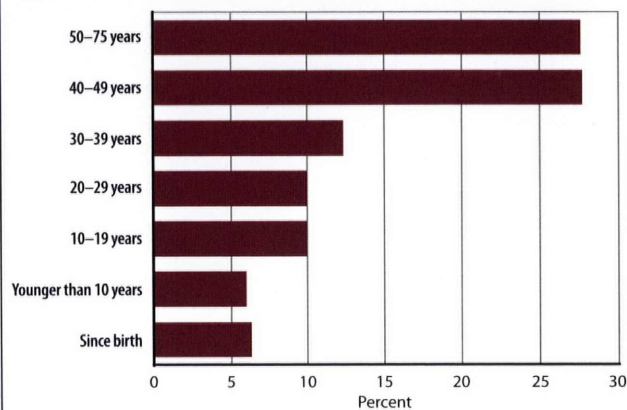


SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*: www.nsf.gov/statistics/wmpd/.

E

About two-thirds of scientists and engineers with disabilities became disabled at age 30 or older. Relatively few of those with disabilities had been disabled since birth.

Age at onset of disability among scientists and engineers: 2006



SOURCE: *Women, Minorities, and Persons with Disabilities in Science and Engineering*: www.nsf.gov/statistics/wmpd/.

Data Sources

The data in this digest come from surveys conducted by the National Science Foundation (Division of Science Resources Statistics), the U.S. Department of Education (National Center for Education Statistics), and the U.S. Department of Labor (Bureau of Labor Statistics). The technical notes for this report, available online at <http://www.nsf.gov/statistics/wmpd/>, provide information on specific data sources, including the survey population, data collection procedures, and sampling errors.

This digest includes data on people with degrees in science, engineering, and health fields, constituted in this report by the following fields: astronomy, chemistry, physics, atmospheric sciences, earth sciences, oceanography, mathematics and statistics, computer sciences, agricultural sciences, biological sciences, psychology, social sciences, engineering, medical sciences, and other life sciences. Medical sciences and other life sciences are considered health fields and include such fields as public health, nursing, and health care administration. To present data in a condensed form for this digest, several fields were aggregated in figures and in text. The biological sciences field includes agricultural sciences; the physical sciences field includes earth, atmospheric, and ocean sciences; the medical sciences field includes other life sciences; and the social sciences field includes behavioral sciences except where noted. Data on degrees include data on bachelor's, master's, and doctoral degrees and do not include data on professional degrees, such as the MD or JD.

Racial/ethnic categories reported are generally those mandated by the U.S. Office of Management and Budget (OMB) effective 1 January 2003. OMB specified the following categories of racial/ethnic groups: Black or African American; American Indian or Alaska Native; Asian; Native Hawaiian or Other Pacific Islander; White; Hispanic or Latino regardless of race; and more than one race reported. Previously, racial/ethnic groups were identified as white; black; Hispanic; Asian or Pacific Islander; and American Indian or Alaskan Native. Degree and enrollment data by race/ethnicity were collected by the National Center for Education Statistics under the previous standards through 2008; thus, the racial/ethnic groups described for degree data are designated by the old categories: Asian includes Pacific Islander and American Indian includes Alaska Native. Degree data by race/ethnicity refer to U.S. citizens and permanent residents only. American Indian also includes Alaska Native for employment data. Because of insufficient sample size in some workforce surveys, not all groups are reported in all figures.

Previously published data on doctorate holders in the workforce for 2006 erroneously included some individuals reporting two or more races in other individual racial/ethnic categories. Workforce data for 2006 in this report have been revised. The 2008 data in this report for doctorate holders are preliminary.

Glossary

High Hispanic enrollment institution. HHE institutions are academic institutions on the U.S. Department of Education's list of minority-serving institutions with high Hispanic enrollment in 2006. This list includes the institutions of higher education whose full-time equivalent enrollment of undergraduate students is at least 25% Hispanic. See <http://www.ed.gov/about/offices/list/ocr/edlite-minorityinst-list-hisp-tab.html>.

Historically black college or university. HBCUs are academic institutions on the list maintained by the White House Initiative on Historically Black Colleges or Universities. The Higher Education Act of 1965, as amended, defines an HBCU as: "any historically black college or university that was established prior to 1964, whose principal mission was, and is, the education of black Americans, and that is accredited by a nationally recognized accrediting agency or association determined by the Secretary [of Education] to be a reliable authority as to the quality of training offered or is, according to such an agency or association, making reasonable progress toward accreditation." See <http://www2.ed.gov/about/inits/list/whhbcu/edlite-list.html>.

Minority. A minority is a racial/ethnic group that is a small percentage of the U.S. population. Blacks, Hispanics, American Indians/Alaska Natives, Native Hawaiians/Other Pacific Islanders, and Asians are minority groups.

Scientists and engineers. In this report persons classified as scientists and engineers are residents of the United States with a baccalaureate degree or higher who were either educated as or are working as a scientist or engineer. A baccalaureate or higher degree is a bachelor's, master's, doctoral, or professional degree.

Tribal college. Tribal colleges are academic institutions that are members of the American Indian Higher Education Consortium and that are included as tribal colleges in the basic classification scheme of the 2005 Carnegie Classification of Institutions of Higher Education. See <http://www.aihec.org/colleges/TCUroster.cfm> and http://classifications.carnegiefoundation.org/lookup_listings/standard.php.

Underrepresented minority. This category comprises three racial/ethnic minority groups (blacks, Hispanics, and American Indians) whose representation in science and engineering is smaller than their representation in the U.S. population.

Key to Acronyms

HBCU = historically black college or university

HHE = high Hispanic enrollment

S&E = science and engineering

URM = underrepresented minority

Online Resources

A rich set of resources that supplement this digest is available online at <http://www.nsf.gov/statistics/wmpd/>. *Women, Minorities, and Persons with Disabilities in Science and Engineering* online is a dynamic information source with data updated as they become available.

Data tables. Detailed data tables, organized by topic, allow the reader to explore the data in more depth. Data tables are available for download, either as Excel files or in portable document format (PDF).

Figures. Presentation graphics, in PowerPoint slide and image (JPEG) formats, accompanied by their supporting data in Excel format, are provided for each of the figures that illustrate the topics in this digest.

Technical notes. Technical notes provide information on reporting categories, sources of data, and sampling errors.

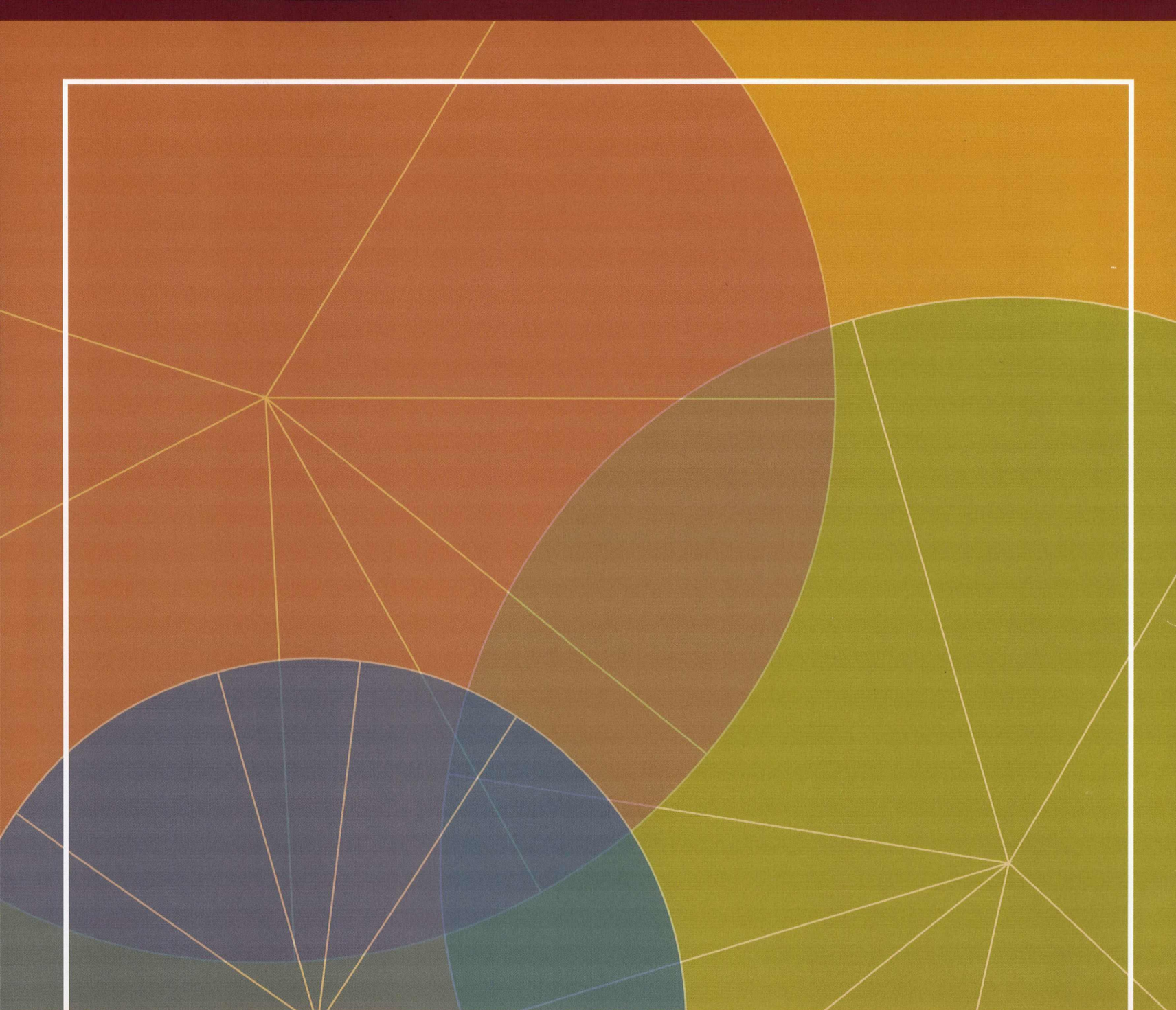
Resource links. Links are provided to additional sources of data on these topics from the National Science Foundation and to related reports published by NSF, as well as to related reports and data from external sources, such as the National Center for Education Statistics and American Council on Education.

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