



A NATIONAL ANALYSIS OF DIVERSITY
IN SCIENCE AND ENGINEERING
FACULTIES AT RESEARCH UNIVERSITIES

By
Dr. Donna J. Nelson and Diana C. Rogers

A NATIONAL ANALYSIS OF DIVERSITY IN SCIENCE AND ENGINEERING FACULTIES AT RESEARCH UNIVERSITIES: EXECUTIVE SUMMARY

The first national and most comprehensive analysis to date of tenured and tenure track faculty in the “top 50” departments of science and engineering disciplines shows that females and minorities are significantly underrepresented.

- There are few tenured and tenure-track women faculty in these departments in research universities, even though a growing number of women are completing their PhDs. Qualified women are not going to science and engineering departments. In some engineering disciplines, there is a better match between the representation of females in PhD attainment versus the faculty, but these disciplines are the ones with very low percentages of females in PhD attainment.
- Underrepresented minority (URM) women faculty are almost nonexistent in science and engineering departments at research universities. In the “top 50” computer science departments, there are no Black, Hispanic, or Native American tenured or tenure track women faculty.
- The percentage of women in BS attainment in science and engineering continues to increase, but they are likely to find themselves without the female faculty needed for optimal role models
- There are few female full professors in science and engineering; the percentage of women among full professors ranges from 3% to 15%. In all but one discipline surveyed, the highest percentage of female faculty is at the level of assistant professor.
- In most science disciplines studied, the percentage of women among recent PhD recipients is much higher than their percentage among assistant professors, the typical rank of recently hired faculty. Even in disciplines where women outnumber men earning PhDs, the percentage of assistant professors who are White male is greater than females. For example, in the biological sciences, 44.7% of the PhDs between 1993 and 2002 were women; while in 2002, they accounted for only 30.2% of the assistant professors.

In some disciplines, it is likely that a woman can get a bachelor of science without being taught by a female professor in that discipline; it is also possible for a woman to get a PhD in science or engineering without having access to a woman faculty member in her field.

The data demonstrate that while the representation of females in science and engineering PhD attainment has significantly increased in recent years, the corresponding faculties are still overwhelmingly dominated by White men.

There is a drastically disproportionate number of male professors as role models for male students. For example, in 2000, 48.2% of the students graduating with a BS in math were women, but in 2002, only 8.3% of the faculty was female.

A cycle is perpetuated. Women are less likely to enter and remain in science and engineering when they lack mentors and role models. In most science disciplines, the percentage of women among faculty recently hired is not comparable to that of recent women PhDs. This results in fewer female faculty to act as role models for female undergraduates and graduate students. Female students observe this in the course of sampling the environment. When female professors are not hired, treated fairly, and retained, female students perceive that they will be treated similarly. This dissuades them from persisting in that discipline.

This is not to say that only women can mentor women and girls. In the absence of female professors, male professors have been mentoring female students for decades. Because of the dearth of female professors and the impact this has on female student perceptions, the male faculty should (1) actively encourage female students to enter science and engineering and offer to become their mentors and (2) insure that the environment for the few female professors currently in science and engineering is one which female students will perceive as appealing. In the end, the presence, treatment, and fate of female professors will be most relevant to the lives, family responsibilities, and careers of typical female students and the choices and obstacles they will face.

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“Progress for female and minority faculty at research universities, produced from past attempted solutions combined, has been too slow. If significant progress is to be made within the next couple of decades, new and totally different approaches to solving problems facing women and minority faculty will be needed.”

Dr. Donna J. Nelson

Introduction

The first determination of the representation of both females and minorities among tenured and tenure track faculties of science and engineering departments at research universities reveals that both are underrepresented, in some cases, at levels far below that expected. Females are primarily in the lower professorial rankings, and underrepresented minority female professors are almost nonexistent. Due to the close relationship between faculty and students, this raises other concerns, which are detailed in this report.

Comparison with recent BS attainment by females and minorities reveals their lack of role models and mentors. This is of particular concern, given the national goal to rely more on US citizens, and less on foreign nationals, as a future source for scientists and engineers. In most of the disciplines surveyed, comparison with recent PhD attainment reveals sufficient qualified females and minorities, so that many more could have been hired.

For decades, it has been recognized that the representation of women and minorities in science and engineering generally is far below that needed to insure the national security, economic superiority, and scientific leadership of our country. Because the scientists and engineers required for this must each pass through an educational institution in order to obtain qualifications for employment, problem solving analyses and efforts have come to focus on academic institutions, particularly on science and engineering departments and their supporting organizations. The anticipated large representation of women and minorities in the US future population indicates that they will be among our future leaders; this warrants analysis of the status of these underrepresented groups at research universities, because this is where the majority of our country's leaders will be educated.

Attempts to correct problems facing underrepresented groups have included appeals to conscience, increased funding for females and minorities (predominantly students), and legislation. Progress for female and minority faculty at research universities, produced from past attempted solutions combined, has been too slow. If significant progress is to be made within the next couple of decades, new and totally different approaches will be needed.

In order to measure the effect of past attempts to increase female and minority leaders in science and engineering, it is important to determine and track the status of and environment for female and minority science and engineering faculty at research universities. Female and minority students already perceive the status and environment of these role models and use them to judge how they themselves will be treated should they pursue degrees and employment in those disciplines.

In order to establish the status of underrepresented groups, we surveyed the top 50 departments in each of fourteen science and engineering disciplines, as ranked by the National Science Foundation¹ (NSF) according to research funds expended. Each department chair was asked to provide the gender, race/ethnicity, and rank of each tenured or tenure track faculty member. In this report, we discuss the data for women and underrepresented minorities (URMs), i.e. Blacks, Hispanics, and Native Americans; we also compare the faculty data to those for PhD attainment and for BS attainment in analogous disciplines.

“Who can look at these numbers and not say that we as a faculty have failed—failed our students, our institution, and most of all, failed our nation?”

Professor Nancy Hopkins, *Professor*, Massachusetts Institute of Technology²

WHO TEACHES MATTERS

Female students do not have an adequate number of female role models and mentors. Although in recent years the number of females studying science and engineering has increased significantly, science and engineering faculties are still overwhelmingly dominated by White men. The data show that the gender and racial compositions of the faculty do not reflect those of the student body. Although the student body has diversified considerably, the composition of the faculty has remained relatively stagnant. The result is a drastically disproportionate number of male professors as mentors and role models. For example, in mathematics women receive almost half of the BS degrees but are less than 10% of the faculty.

There is a similar pattern in departments that have even higher percentages of female students. For example, in the biological sciences, where females are 58.4% of the BS recipients, only 20.2% of the faculty are females. Even in psychology where females overwhelmingly dominate at 76.5% of BS recipients, only 33.5% of the faculty are females (Table 1).

TABLE 1. Gender Distribution of BS Recipients vs. Role Models

| | % Females | | % Males | |
|------------------------|-----------|---------|----------|---------|
| | Students | Faculty | Students | Faculty |
| Chemistry | 47.3 | 12.1 | 52.7 | 87.9 |
| Math | 48.2 | 8.3 | 51.8 | 91.7 |
| Computer Science | 27.7 | 10.6 | 72.3 | 89.4 |
| Astronomy | 32.7 | 12.6 | 67.3 | 87.4 |
| Physics | 21.4 | 6.6 | 78.6 | 93.4 |
| Chemical Engineering | 35.7 | 10.5 | 64.3 | 89.5 |
| Civil Engineering | 24.5 | 9.8 | 75.5 | 90.2 |
| Electrical Engineering | 13.1 | 6.5 | 86.9 | 93.5 |
| Mechanical Engineering | 13.9 | 6.7 | 86.1 | 93.3 |
| Economics | 32.3 | 11.5 | 67.7 | 88.5 |
| Political Science | 50.1 | 23.5 | 49.9 | 76.5 |
| Sociology | 70.2 | 35.8 | 29.8 | 64.2 |
| Psychology | 76.5 | 33.5 | 23.5 | 66.5 |
| Biological Sciences | 58.4 | 20.2 | 41.6 | 79.8 |

BS degree data are for 2000, from NSF³; faculty data are FY2002 except chemistry (FY2003) and astronomy (FY2004)

“It was discouraging to know that when I went to (the University of) Texas in 1976, I was the second woman in a faculty of about 50, and when I left in 1998, they were again hiring a second woman.”

Professor Marye Anne Fox, *Chancellor*, North Carolina State University⁴

In each discipline examined, the representation of men among faculty is much higher than that among BS degree recipients. Often, female science or engineering majors study in a department in which there is not one female “full” professor; in some departments, there is not a female professor at any rank.

Because of the dearth of female faculty, male faculty should actively encourage female students to enter science and engineering and should offer to become their mentors. It is essential that they provide a fair environment for the few existing female professors in science and engineering in order to convince female students that the same awaits them in their future careers.

It is the paucity of women in science and engineering that is the cause of grave concern. It is likely that a woman could get a bachelor of science without being taught by a female professor in her discipline; it is possible for a woman to get a PhD in science or engineering without having access to a woman faculty member in her field; and, if the student is a woman of color, it is probable she will earn her PhD without ever seeing a minority female professor in her field.

Female student attrition in science and engineering has been attributed, in part, to a lack of female mentors and role models. Many studies have shown that the mere presence of female faculty encourages female students. According to a forum published in *Harvard Magazine*, the percentage of women faculty is “the single most important indicator of academic success for women undergraduates.”⁵

Female students are not the only ones affected by the lack of female faculty on campus. Male students are also harmed because they are deprived of access to talented faculty who could be their mentors. In addition, the absence of women sends a message to men that women do not belong in these non-traditional environments and that it is acceptable for them to be marginalized, denied tenure, and given unequal resources.

Table 2 . Assistant Professors (FY2002) and PhD Attainment (1993 - 2002)⁶ in Science and Engineering Disciplines

| Discipline | White Male | | Asian Male | | Female | | URM Male | |
|------------------------|------------|-------|------------|-------|--------|-------|----------|------|
| | Asst | PhDs | Asst | PhDs | Asst | PhDs | Asst | PhDs |
| Chemistry (FY2003) | 65.4% | 54.8% | 11.5% | 9.6% | 21.5% | 31.3% | 1.6% | 4.2% |
| Math | 60.5% | 58.1% | 15.0% | 11.3% | 19.6% | 27.2% | 5.0% | 3.3% |
| Computer Science | 62.9% | 60.6% | 24.3% | 15.1% | 10.8% | 20.5% | 2.0% | 3.5% |
| Astronomy (FY2004) | 62.6% | 69.8% | 9.9% | 6.6% | 22.0% | 20.6% | 5.5% | 2.6% |
| Physics | 70.6% | 68.9% | 14.9% | 13.9% | 11.2% | 13.3% | 3.3% | 3.8% |
| Chemical Engineering | 60.7% | 58.4% | 16.6% | 14.8% | 21.4% | 22.3% | 1.4% | 4.0% |
| Civil Engineering | 57.9% | 58.4% | 11.3% | 17.0% | 22.3% | 18.7% | 8.6% | 5.9% |
| Electrical Engineering | 57.2% | 59.1% | 27.5% | 23.9% | 10.9% | 11.5% | 4.5% | 5.5% |
| Mechanical Engineering | 56.1% | 63.4% | 22.2% | 21.2% | 15.7% | 10.4% | 6.1% | 5.0% |
| Economics | 59.8% | 54.9% | 16.1% | 9.6% | 19.0% | 29.3% | 5.1% | 6.0% |
| Political Science | 54.2% | 52.4% | 4.5% | 3.6% | 36.5% | 36.6% | 4.8% | 7.0% |
| Sociology | 37.2% | 31.5% | 3.5% | 3.0% | 52.3% | 58.9% | 7.0% | 6.5% |
| Psychology | 46.0% | 29.5% | 4.6% | 1.1% | 45.4% | 66.1% | 4.0% | 3.3% |
| Biological Sciences | 55.4% | 43.2% | 10.7% | 8.7% | 30.2% | 44.7% | 3.7% | 3.3% |

HIRING INEQUITY REVEALED IN MOST SCIENCES

Data in Table 2 reveal a reasonable match between female PhDs and recently-hired female faculty in engineering and some sciences, but not in seven of the other disciplines studied. In those seven disciplines, there is a gender disparity between recent hires and the hiring pool. The percentage of women among PhD recipients from 1993 – 2002 can be compared to the percentage of women assistant professors. This shows that in many disciplines women may be well-represented among PhD recipients, but this representation is not reflected among assistant professors. In these disciplines, there is a wide gap between the percentage of women among PhD recipients since 1993 versus the percentage of women among assistant professors, the rank most recently hired. In most science disciplines, qualified female candidates exist, but they are not being hired. In three disciplines:

physics, electrical engineering, and mechanical engineering, women have the lowest percentage of female assistant professors, but they also have the lowest percentages of PhD recipients. These low percentages of females among PhD recipients would also be the easiest to match. Nevertheless, the scarcity of female professors in these disciplines is probably at least partially related to the low numbers of women earning a Ph.D.

Even where women outnumber men earning PhDs, White males maintain their hold on the vast majority of assistant professor positions. For example, in the biological sciences, for years females have received the greater percentage of PhDs than White males, but White males still make up more than half of the assistant professors. In computer science, math, and chemistry, there is a similar disparity between the percentages of women among assistant professors versus PhD recipients (Table 2).

SUFFICIENT WOMEN FILLED THE HIRING POOL

A growing number of women have been completing PhDs in science and engineering. The proportion of women earning a PhD in science or engineering has generally gradually increased over the last 20 years. PhD attainment by women rose an average of 6% between the years 1983 – 1992 versus 1993 – 2001 (Table 3). Data demonstrate that the pool of potential female candidates for faculty positions is plentiful, but faculty search committees and chairs often say they receive few applications from females. This agrees with comments often heard from recent female PhDs; they do not perceive the academic environment as desirable, so they choose not to apply for faculty positions.

“Women who are eligible for faculty positions have earned a Ph.D. in a chemistry department. They have absorbed the tone of that environment . . . and have decided they don’t want any more of it.”

Professor Janet Osteryoung, *Director*, Division of Chemistry, National Science Foundation ⁴

TABLE 3. Female PhDs by Years of PhD Attainment ⁶

| Discipline | 1983 – 1992 | 1993 – 2002 |
|------------------------|-------------|-------------|
| Chemistry | 22.8% | 31.3% |
| Math | 20.5% | 27.2% |
| Computer Science | 17.9% | 20.5% |
| | | |
| Astronomy | 12.7% | 20.6% |
| Physics | 9.0% | 13.3% |
| Chemical Engineering | 14.4% | 22.3% |
| Civil Engineering | 10.2% | 18.7% |
| Electrical Engineering | 6.4% | 11.5% |
| Mechanical Engineering | 6.0% | 10.4% |
| | | |
| Economics | 22.4% | 29.3% |
| Political Science | 31.0% | 36.6% |
| Sociology | 51.1% | 58.9% |
| | | |
| Psychology | 55.0% | 66.1% |
| Biological Sciences | 36.5% | 46.7% |

WOMEN ARE UNDERREPRESENTED

There are very few tenured and tenure-track women faculty in the “top 50” science and engineering departments. Women have made strides as students in science and engineering. However, the data show that while the percentages of women studying science and engineering have significantly increased, the faculties in science and engineering are still overwhelmingly dominated by men. Data in Table 4 show the distribution by rank of the few female faculty in science and engineering. Because women began with barely any representation on university faculties, and because only miniscule increases have been achieved each year, the progress made has been inadequate. This is exacerbated by female faculty attrition, which is generally perceived to be much higher than that for male faculty.

“Many smart motivated women have cited isolation and marginalization as reasons for moving out of science and engineering at major research institutions.”

Abigail Stewart, *Project Director*, Institute for Research on Women and Gender, University of Michigan ⁷

TABLE 4. Female Science and Engineering Faculty by Rank (FY2002)

| Discipline | Assistant Professor | Associate Professor | “Full” Professor | All Ranks |
|------------------------|---------------------|---------------------|------------------|-----------|
| Chemistry (FY2003) | 4.1% | 3.0% | 5.1% | 12.1% |
| Math | 2.8% | 2.4% | 3.1% | 8.3% |
| Computer Science | 2.8% | 3.8% | 4.0% | 10.6% |
| Astronomy (FY2004) | 3.4% | 2.6% | 6.5% | 12.6% |
| Physics | 1.5% | 1.4% | 3.8% | 6.6% |
| Chemical Engineering | 3.8% | 4.0% | 2.7% | 10.5% |
| Civil Engineering | 4.8% | 3.2% | 1.8% | 9.8% |
| Electrical Engineering | 1.8% | 2.5% | 2.2% | 6.5% |
| Mechanical Engineering | 2.5% | 2.3% | 1.8% | 6.7% |
| Economics | 4.3% | 3.0% | 4.2% | 11.5% |
| Political Science | 8.6% | 8.2% | 6.7% | 23.5% |
| Sociology | 12.6% | 11.0% | 12.2% | 35.8% |
| Psychology | 9.6% | 8.4% | 15.4% | 33.5% |
| Biological Sciences | 6.3% | 5.4% | 8.5% | 20.2% |

WOMEN HOLD THE LOWEST ACADEMIC RANK

For those few women who take professorships in science or engineering after attaining PhDs, a new host of concerns arise. The data demonstrate that women are more likely than men to hold lower academic ranks (Table 5).

This phenomenon has been discussed in *Harvard Magazine*. “(T)he gap between the percentage of tenured men and the percentage of tenured women has not changed in 30 years...among those in academia with doctorates in science and engineering, only one-quarter of women had been awarded tenure, compared to one-half of men.”⁵

Our data confirm this pattern. In all but computer science, the rank of assistant professor has the highest percentage of female faculty (Table 5). Conversely, the rank which has highest percentage of male faculty is typically that of “full” professor, and that is the rank held by the majority of male faculty as well.

TABLE 5. Percentage of Female Faculty within each Rank (FY2002)

| Discipline | Assistant Professor | Associate Professor | “Full” Professor | All Ranks |
|------------------------|---------------------|---------------------|------------------|-----------|
| Chemistry (FY2003) | 21.5 | 20.5 | 7.6 | 12.1 |
| Math | 19.6 | 13.2 | 4.6 | 8.3 |
| Computer Science | 10.8 | 14.4 | 8.3 | 10.6 |
| | | | | |
| Astronomy (FY2004) | 22.0 | 16.5 | 9.5 | 12.6 |
| Physics | 11.2 | 9.8 | 4.6 | 6.6 |
| Chemical Engineering | 21.4 | 19.2 | 4.4 | 10.5 |
| Civil Engineering | 22.3 | 11.5 | 3.5 | 9.8 |
| Electrical Engineering | 10.9 | 9.8 | 3.8 | 6.5 |
| Mechanical Engineering | 15.7 | 8.9 | 3.2 | 6.7 |
| | | | | |
| Economics | 19.0 | 16.3 | 7.2 | 11.5 |
| Political Science | 36.5 | 28.6 | 13.9 | 23.5 |
| Sociology | 52.3 | 42.7 | 13.9 | 35.8 |
| | | | | |
| Psychology | 45.4 | 40.1 | 13.9 | 33.5 |
| Biological Sciences | 30.2 | 24.9 | 14.8 | 20.2 |

“I think a very plausible case can be made that academic departments are an unhealthy—even hostile—environment for women.”

Dr. Debra Rolison, Naval Research Lab⁴

Assistant professors, who are typically untenured, have little job security or capability to change the culture of their departments or disciplines. Tenure is granted by a laborious process that typically involves recommendations by the department and by external reviewers, followed by approval from the college and the university. While there are some objective criteria, in the final analysis, these decisions have room for a great deal of subjectivity. Hence, assistant professors are uniquely vulnerable to the culture of their departments. Because most female professors are assistant professors, this means that the number of female professors who can safely take steps to change the departmental environment is much smaller than it might first appear.

UNDERREPRESENTED MINORITY WOMEN FACULTY ALL BUT INVISIBLE.

In some disciplines, there is no representation of URM (Black, Hispanic, or Native American) women on the faculty at all. In the “top 50” computer science departments, there are no women in tenured or tenure-track positions. With the exception of one Black “full” professor in astronomy, there are **no** female Black or Native American “full” professors in the physical science or engineering disciplines surveyed.

Similarly, in physics there are no Black female professors, and in eight of the nine physical science and engineering disciplines surveyed, Native American female professors are nonexistent. URM females fare much better in the social sciences and the life sciences. The few female URM faculty in the “top 50” science and engineering departments are detailed in Table 6 below. These data are in two groups to facilitate comparison and contrast; these are physical sciences and engineering, and social sciences and life sciences.

The data show URM women are less likely than either White women or men of any racial group to be “full” professors and to be awarded tenure. (Table 6). The few “full” professors in each discipline are designated by asterisks after the corresponding number.

Table 6. Female URM Faculty at “Top 50” Science and Engineering Departments (FY2002).

| Physical Sciences and Engineering | Black females | Hispanic females | Native American females |
|--|---------------|------------------|-------------------------|
| Chemistry (FY2003) | 1 | 5* | 1 |
| Math | 2 | 7*** | 0 |
| Computer Science | 0 | 0 | 0 |
| Astronomy (FY2004) | 2* | 2* | 0 |
| Physics | 0 | 8*** | 0 |
| Chemical Engineering | 2 | 3 | 0 |
| Electrical Engineering | 7 | 3 | 0 |
| Mechanical Engineering | 3 | 2* | 0 |
| Civil Engineering | 2 | 3* | 0 |
| Total | 19 | 33 | 1 |
| *URM female “full” professor | 1 | 10 | 0 |
| Social Sciences and Life Sciences | | | |
| Economics | 5*** | 7*** | 0 |
| Political Science | 26***** | 6 | 0 |
| Sociology | 32***** | 12** | 0 |
| Psychology | 22*** | 26***** | 3 |
| Biological Sciences | 9* | 13** | 0 |
| Total | 94 | 53 | 3 |
| *URM female “full” professor | 19 | 12 | 0 |

Other studies have also concluded that URM minority females are less likely to get tenure than White women or men of any racial group.^{5,8} Are universities training an insufficient number of minority women or are qualified women looking outside the academy? The data indicate that both are true, but to varying degrees in different disciplines.

Relatively few URM women earn advanced degrees in science and engineering. The reason for this, according to Professor Cheryl Leggon, is the lack of encouragement they receive. She cites the National Center for Education Statistics that found that “Hispanic and African American women do not persist in science because they are not encouraged to do so.”⁸ Professor Leggon believes this lack of encouragement has critical implications. She states that numerous studies have shown that “not encouraging women to persist (in science or engineering) produces the same result as actively discouraging them.”⁸

“I was surprised that even in 2002, these women (faculty) had so few opportunities in their professional careers to talk and network with other minority women scientists and engineers.”

Professor Evelyn Hammonds, *Professor*, Harvard University²

But the data also show that universities are not taking advantage of the URM women who do complete the PhD. The data find that only fifty-three are faculty at “top 50” physical science and engineering departments.

Anne J. MacLachlin, at the Center for Studies in Higher Education at U.C., Berkeley, believes “the academic experience often led them (URM women who have earned PhDs) to seek another kind of scientific work.”⁹

Finally, we must pose a third possibility that applies to all women of any color earning PhDs in science or engineering. Are qualified women rejected for academic positions because of departmental practices that act as barriers to hiring and retaining women?

CONCLUSIONS

Disparities in hiring and retention between male and female science and engineering faculty place women at a distinct disadvantage at all levels, from undergraduate to full professor. Women faculty are poorly represented in science and engineering departments of research universities. This has grave repercussions for undergraduate and graduate students who are bereft of female role models and mentors and contributes to the attrition rate of women studying science and engineering.

In most science disciplines studied, qualified female candidates exist, but they are not achieving assistant professorships. Whether hiring and work practices at the nation's top universities actively discriminate cannot be answered by this study. However, the numbers clearly indicate a grave national problem that must be aggressively addressed now.

There is general agreement that few women typically apply for academic positions in science and engineering departments at research universities. Yet the percentage of PhDs attained by women has steadily risen over the last two decades. In some cases, it is reported that female applicants for such openings have even declined from years past. There is not agreement on an explanation for this phenomenon. Is the private sector more receptive to women scientists? Have women found the academy a hostile environment? Do qualified women find themselves rejected by departmental practices that operate as barriers to hiring and retention? The low representation of female professors in these disciplines exacerbates a learning and work environment that is often alienating and unfair.

The reasons need to be explored and solutions found. However, before the problem can be solved, it must be well defined. In order to do this, the problems must be discussed in detail and the barriers identified by those most knowledgeable about them. However, those most familiar with these problems and most well-equipped to identify solutions are often afraid to discuss them openly. The same situation holds for many minorities. Therefore, the first step to solving the problems facing women and minorities in science and engineering must be to generate an atmosphere in which it is acceptable to discuss them.

The low number and percentage of women faculty make it difficult for them to effect the needed changes by themselves, so they will need assistance and support in

this. If all female faculty, both tenured and untenured, in a department work together, their total percentage or number is still usually insufficient to exert much leverage. According to Rosabeth Moss Kantor, underrepresented groups need to be at least 15% of an organization in order to begin to impact that organization's culture, policy, and agenda.¹⁰ Even when combining all ranks, women remain a small fraction of the faculty in any science or engineering discipline in this study, below the 15% mark.

The paucity of female faculty is exacerbated by their predominantly low academic ranking. Most of the women in science and engineering are assistant professors without the protection of tenure. This places them in a particularly vulnerable position within the department and the university. Tenure has a significant effect on the behavior of professors; tenured professors have the security to help create cultural change. "Full" professors with tenure are most likely to take risks because they have the freedom to say and do things, such as suggesting more female hires, without fear of losing their jobs or being denied promotion. Unfortunately, there are far too few female "full" professors than that needed to effect significant change in a reasonable amount of time. Finally, and perhaps, most importantly, when female students see the few female faculty in their own discipline marginalized, treated poorly, or not promoted, it serves as a warning: stay in this profession at your own risk.

As Cheryl Leggon notes,⁸ simply adding more women to science and engineering departments is a "necessary but not sufficient" agent of change. According to Harvard Magazine's "Forum on Faculty Diversity",⁵ one formidable obstacle to gender parity is an "unaccommodating culture" and a status quo that proves to be "an intractable force." Some of the concerns women frequently point to include: "limited opportunities to participate in departmental and institutional decision-making; excessive and 'token' committee assignments; ...research that's trivialized and discounted..."⁵

In order to diversify successfully and open wide the doors for women, universities have to examine culture, attitudes, and policies they have long followed assuredly. This is a long-overdue and realistic response to a changing world. As Princeton chemist George McLendon observed, "Academic institutions are intrinsically monastic institutions that were created in the 13th century. They might need a little fine-tuning."¹¹

ACKNOWLEDGEMENTS

The following individuals contributed to gathering or analyzing survey data: Dr. Ann Beutel, Christopher Brammer, Diana Rogers, Audra Wendt, Lina Ea, Naquesha Johnson, Natalie Frow, Zachary Cole, Sergio Vasquez, Roxanne LaMothe, Lea Mitchel, Sheleatha Taylor, Brett Beecher, Kimberly Yang, Lindsey Anderberg Torres, Ruibo Li (The University of Oklahoma); Laura Lopez, Dr. Nancy Hopkins (Massachusetts Institute of Technology); Daquant Hornbeak (Langston University).

Dissemination of the survey data was made possible, in part, by grants from the Ford Foundation and the John Simon Guggenheim Foundation. The Ford Foundation and The John Simon Guggenheim Foundation are not responsible for the report's conclusions and do not endorse activities that influence legislation.

BIOGRAPHICAL SKETCH

Dr. Donna Nelson, is an associate professor of chemistry at the University of Oklahoma. Reared in Eufaula, Oklahoma, she took her BS in Chemistry at the University of Oklahoma in 1974. She obtained her PhD in chemistry at the University of Texas with Michael J. S. Dewar in 1980, did her postdoctorate at Purdue University with Herbert C. Brown during 1980 - 1983, and joined the University of Oklahoma in 1983.

She has an active research group in physical organic chemistry, in which she has developed a new synthetically useful technique for gathering mechanistic information on addition reactions of alkenes. The investigations often permit selection of one mechanism from several which are proposed. She has been recognized for this work, most recently via a Sigma Xi Faculty Research Award and a Guggenheim Award.

She has presented her diversity research results at national meetings of professional societies, at Capitol Hill briefings with the US Congress, and before various other organizations in Washington, DC, and she has served on various national level task forces and committees addressing these issues.

For more information about Dr. Nelson, visit her web site at <http://cheminfo.chem.ou.edu/faculty/djn/djn.html>.

METHODOLOGY

Data were collected while at the University of Oklahoma between 2000 and 2003 and the Massachusetts Institute of Technology during the Fall, 2003. To investigate the gender, race/ethnicity, and rank of faculty, we surveyed top research departments of fourteen science and engineering disciplines. To sample the top research departments of a discipline, we selected all the departments in each discipline that ranked in the top 50 according to the most recent National Science Foundation annual report on research expenditures available at the time of data collection (National Science Foundation report on 1999 expenditures, except 2000 for chemistry). The ranking for astronomy departments was by the National Research Council, based on research expenditures in 1994. The top 50 departments were different for each discipline.

Over 90% of the departments in our sample are located in universities classified in either the Doctoral/Research Universities-Extensive category or the Doctoral/Research Universities-Intensive category of the Carnegie Classification of Institutions of Higher Education (McCormick 2001).

For each of the top 50 departments in research expenditures, department chairs were contacted and asked to report the gender, race-ethnicity (Asian, Black, White, Hispanic, and Native American), and rank (assistant, associate, and professor) of tenured and tenure-track faculty for fiscal year 2002 (fiscal year 2003 for chemistry and 2004 for astronomy). In a limited number of instances, data were unavailable from department chairs and were collected instead from other sources, such as department websites and published directories.

CONTACT INFORMATION

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APPENDICES

Appendix 1. Tables of data on tenured/tenure-track faculty at the “top 50” departments of fourteen science and engineering disciplines by race/ethnicity, by gender, and by rank. In each data entry, the number after the decimal point shows the number of people that are female. For example the total number of chemistry faculty in FY2003 is 1654.200; this means there are 1654 people, 200 of whom are female.

Appendix 2. Tables of data on US citizen and permanent resident PhD attainment in fourteen science and engineering disciplines each year from 1983 through 2002. Data are disaggregated by race/ethnicity and by gender.

APPENDIX 1

Tables of data on tenured/tenure-track faculty at the “top 50” departments of fourteen science and engineering disciplines by race/ethnicity, by gender, and by rank. In each data entry, the number after the decimal point shows the number of people that are female. For example the total number of chemistry faculty in FY2003 is 1654.200; this means there are 1654 people, 200 of whom are female.

Data are provided for the “top 50” departments in the following disciplines:

Table 1 Chemistry

Table 2 Physics

Table 3 Mathematics

Table 4 Computer Science

Table 5 Chemical Engineering

Table 6 Civil Engineering

Table 7 Electrical Engineering

Table 8 Mechanical Engineering

Table 9 Economics

Table 10 Political Science

Table 11 Sociology

Table 12 Psychology

Table 13 Biological Sciences

Table 14 Astronomy

Table 1. Tenured/Tenure Track Chemistry Faculty at the "Top 50" Chemistry Departments by Race/Ethnicity, by Gender, and by Rank (FY 2003)*

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | Total | | |
|-------------------------------|----------|---------|---------|-------|-------|-------|----------|--------|--------|-------|--------|--------|------------|--------|---------|-------|------------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | | Asst | Tot |
| U CA Berkeley | 44,006 | 1 | 7,001 | 1 | - | - | 2 | - | - | 2 | - | 2 | 1 | - | - | 3 | 58,007 |
| MA Institute of Tech | 20,003 | 1 | 5,001 | - | - | - | - | - | - | - | - | - | 1 | - | - | 3,001 | 29,005 |
| U of IL Urbana-Champ | 24,002 | 1,001 | 7,001 | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | 35,004 |
| Harvard Univ | 15,001 | - | 3,001 | - | - | - | 1 | - | - | - | - | - | 1 | - | - | 4,001 | 23,003 |
| Pennsylvania State U | 17,001 | 6,002 | 9,004 | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 34,007 |
| California Inst of Tech | 21,002 | 1 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 2,001 | 29,003 |
| Texas A&M Univ | 34,003 | 1,001 | 5 | 1 | - | - | 1 | - | - | 2 | - | - | - | - | - | 1,001 | 44,005 |
| U WI-Madison | 33,002 | - | 6,002 | - | - | - | - | - | - | - | - | - | 3 | - | - | 5 | 44,004 |
| Cornell Univ | 17,001 | 4,001 | 4 | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | 28,002 |
| U CA Los Angeles | 36,005 | 5,001 | 7,003 | 1 | - | - | 1 | - | - | 1 | - | - | 2,001 | - | - | 4,002 | 54,011 |
| Ohio State Univ | 20,001 | 8,001 | 5,001 | - | - | - | - | - | - | - | - | - | 3 | - | - | 5 | 40,004 |
| U of Pennsylvania | 19,002 | 5 | 3,001 | - | - | - | - | - | - | - | - | - | 2 | - | - | 3 | 31,003 |
| Stanford Univ | 16,001 | 2 | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | 22,001 |
| Johns Hopkins U | 12 | 1 | 4,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 17,001 |
| Univ of Oklahoma | 14 | 2 | 6,001 | - | - | - | - | - | - | - | - | - | 1 | - | - | 0 | 27,003 |
| Rutgers the State U NJ | 35,006 | 9,003 | 6,001 | 1 | - | - | - | - | - | - | - | - | 2,001 | - | - | 4,003 | 57,015 |
| U CA San Francisco | 12,002 | 2 | 4,001 | - | - | - | 1 | - | - | - | - | - | 1 | - | - | 1 | 20,003 |
| Univ of Colorado | 23,005 | 5 | 4,001 | - | - | - | - | - | - | 2 | - | - | 2,001 | - | - | 2 | 38,007 |
| Florida State Univ | 19,003 | 7 | 4,001 | - | - | - | - | - | - | - | - | - | 1 | - | - | 3,002 | 33,006 |
| Northwestern Univ | 22,001 | 1,001 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 2,001 | 29,003 |
| U MA Amherst | 10 | 6,001 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 22,002 |
| Purdue Univ | 28,003 | 5,002 | 8,002 | 1 | - | - | - | - | - | 1,001 | - | - | 1 | - | - | 4,001 | 47,009 |
| Indiana Univ | 16 | 4,001 | 6,002 | - | - | - | - | - | - | - | - | - | 2 | - | - | 2 | 29,003 |
| UTX at Austin | 33,001 | 5,001 | 8 | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 47,002 |
| U of NC Chapel Hill | 25,002 | 4,002 | 8,001 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 38,005 |
| Univ of Florida | 30,001 | 10,001 | 3 | 1,001 | - | - | - | - | - | 1,001 | - | - | - | - | - | 1 | 47,004 |
| Univ of Notre Dame | 15 | 7,001 | 6,002 | 1 | - | - | - | - | - | - | - | - | - | - | - | 0 | 29,003 |
| Georgia Inst of Tech | 15 | 3 | 12,003 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 31,003 |
| Princeton Univ | 20 | 4,003 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 28,003 |
| U CA San Diego | 31,005 | 3,001 | 6 | - | - | - | - | - | - | - | - | - | 2 | - | - | 7 | 48,006 |
| Univ of Arizona | 23,004 | 1 | 2 | - | - | - | - | - | - | 2 | - | - | 2 | - | - | 2 | 31,005 |
| U CA Irvine | 22,001 | 2,001 | 4 | - | - | - | - | - | - | 1,001 | - | - | - | - | - | 3,002 | 33,004 |
| U of South Carolina | 18,001 | 2 | 5 | - | - | - | - | - | - | - | - | - | 1 | - | - | 4,002 | 27,002 |
| U of Washington | 33,001 | 2,001 | 4,002 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | 3 | 45,004 |
| Univ of Michigan | 24,001 | 4,001 | 7,001 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 38,003 |
| Arizona State Univ | 22,001 | 4,001 | 6,002 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 35,005 |
| Univ of Chicago | 16,001 | 2 | 3 | 1,001 | - | - | - | - | - | - | - | - | 3 | - | - | 5,001 | 26,002 |
| Louisiana St U System | 19 | 5 | 4,001 | - | - | - | - | - | - | 1,001 | - | - | 1 | - | - | 1,001 | 31,003 |
| Univ of Minnesota | 19,001 | 7,002 | 9,001 | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 39,004 |
| Univ of Utah | 19,001 | 4,001 | 4 | - | - | - | - | - | - | - | - | - | 1 | - | - | 4 | 29,003 |
| Univ of Akron | 11,002 | - | 4 | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 17,002 |
| Univ of Virginia | 19 | 2,001 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 24,001 |
| NC State Univ | 13,001 | 8 | 6,001 | - | - | - | - | - | - | 1,001 | - | - | 2 | - | - | 3 | 31,003 |
| VA Polytech Inst & St U | 14,001 | 11,002 | 3 | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 29,003 |
| U of So California | 18,001 | 3 | 1,001 | - | - | - | - | - | - | - | - | - | 2 | - | - | 4 | 26,002 |
| Univ of Pittsburgh | 12 | 8,002 | 6,001 | - | - | - | - | - | - | - | - | - | 2 | - | - | 2 | 28,003 |
| Michigan State Univ | 19,002 | 11,002 | 5 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 39,004 |
| Emory Univ | 12 | 2 | 4,001 | - | - | - | - | - | - | - | - | - | 2 | - | - | 3 | 21,001 |
| Univ of Kansas | 10,002 | 7,001 | 7,004 | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 25,007 |
| Columbia U, City of NY | 15,001 | 1 | 5,001 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 22,002 |
| Chemistry Total | 1034,081 | 199,039 | 251,047 | 13 | 5,001 | 2,001 | 20,002 | 10,001 | 12,005 | 7,003 | 29,009 | 44,002 | 22,003 | 52,016 | 1,802,1 | 3,001 | 1,654,200 |
| Percent within race | 71% | 13% | 17% | 67% | 25% | 10% | 700% | 34% | 41% | 24% | 700% | 37% | 19% | 44% | 100% | 0% | 700% |
| Percent of grand total | 62.5% | 12.0% | 15.2% | 0.8% | 0.3% | 0.1% | 1.2% | 0.6% | 0.7% | 0.4% | 1.8% | 2.7% | 1.3% | 3.1% | 7.1% | 0.1% | 0.2% |
| Females in column | 6.7% | 19.6% | 18.7% | 0% | 20.0% | 50.0% | 10.0% | 10.0% | 41.7% | 42.9% | 31.0% | 4.5% | 13.6% | 30.8% | 17.8% | 0% | 33% |

*By chemical research expenditures FY2000; NSF; numbers after decimals designate females. **Declined; data are from other sources.

Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djn/diversity/top50.html>

Table 2. Tenured/Tenure-Track Faculty at the "Top 50" Physics Departments by Race/Ethnicity, by Gender, and by Rank (FY 2002)**

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | Total |
|-------------------------------|-----------------|----------------|----------------|-----------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|----------------|---------------|----------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Tot | Tot | |
| Johns Hopkins U | 24,002 | - | 3 | - | - | - | - | - | - | 4 | 1 | - | - | - | 32,002 |
| MA Institute of Tech | 50,004 | 5 | 11,002 | - | - | - | - | - | - | 2 | 2 | 6,002 | 10,002 | - | 76,008 |
| U CA Berkeley | 30,002 | 6 | 5 | 41,002 | - | - | - | - | - | 9 | 2,001 | 1 | 12,001 | - | 54,003 |
| California Inst of Tech | 41 | - | 2,001 | 43,001 | - | - | - | - | - | 2,001 | 1 | - | 3,001 | - | 46,002 |
| U TX at Austin** | 31 | 8 | 2 | 41 | - | - | - | - | - | 3 | 2 | 1 | 6 | - | 49,001 |
| Cornell University | 30,001 | 6,001 | 4 | 40,002 | - | - | - | - | - | 2 | - | 1,001 | 3,001 | - | 44,003 |
| Florida State University | 24 | 4,001 | 5,001 | 33,002 | 1 | - | - | - | - | 2 | 2 | 4 | 7 | - | 45,003 |
| U MID at College Park | 39,001 | 10,002 | 5,001 | 54,004 | 1 | - | - | - | - | 17 | - | - | 17 | - | 72,004 |
| Michigan State U | 38 | 4 | 4 | 46 | - | - | - | - | - | 2 | 2 | - | 4 | - | 50 |
| U CA Los Angeles | 47,004 | 3 | 5 | 55,004 | - | - | - | - | - | 5 | 1 | - | 6 | - | 63,005 |
| U Illinois Urbana-Cham | 36,001 | 7,001 | 8,002 | 51,004 | 1 | - | - | - | - | 4 | 1 | 1 | 5 | - | 58,004 |
| U WI-Madison | 36,003 | 3,001 | 4 | 43,004 | - | - | - | - | - | 1 | - | 2 | 5,001 | - | 48,005 |
| Indiana University | 27,002 | 5 | 4 | 36,002 | - | - | - | - | - | 1 | - | 1 | 2 | - | 38,002 |
| U of Alaska Fairbanks | 10 | 3 | 2,001 | 15,001 | - | - | - | - | - | - | - | - | 0 | - | 15,001 |
| Pennsylvania State U** | 25,001 | 5 | 3 | 33,001 | - | - | - | - | - | 7 | 2,001 | 2,001 | 11,002 | - | 46,004 |
| SUNY at Stony Brook | 43,001 | 5 | 7 | 55,001 | - | - | - | - | - | 2 | 1,001 | 1,001 | 3,001 | - | 61,002 |
| Princeton University | 25,001 | 2,001 | 9 | 36,002 | - | - | - | - | - | 1 | 1 | 1,001 | 3,001 | - | 39,003 |
| U CA San Diego** | 22,001 | 6,001 | 1 | 29,002 | - | - | - | - | - | 2 | 1 | - | 3 | - | 33,002 |
| U CA Santa Barbara | 28,001 | 4,001 | 4,002 | 36,004 | - | - | - | - | - | 1 | - | - | 1 | - | 38,005 |
| U of Pennsylvania | 21,002 | 5 | 5 | 31,002 | - | - | - | - | - | 1 | 1,001 | 3 | 5,001 | - | 37,003 |
| U of Washington | 38,003 | 2 | 7,001 | 47,004 | - | - | - | - | - | 1 | - | - | 0 | - | 48,004 |
| Duke University | 11 | 7,001 | 4 | 22,001 | 1 | - | - | - | - | 2 | - | 4,001 | 6,001 | - | 29,002 |
| Vanderbilt University | 17 | 5,001 | 3 | 25,001 | - | - | - | - | - | - | - | - | 0 | - | 25,001 |
| NC State University | 20,001 | 9,001 | 6,002 | 35,004 | - | - | - | - | - | 2 | 1 | 1 | 3 | - | 39,005 |
| Rutgers the State U NJ | 42,004 | 9 | 5,001 | 56,005 | - | - | - | - | - | 3 | 1 | 1 | 5 | - | 62,005 |
| Georgia Inst of Tech | 16 | 3 | 7 | 26 | - | - | - | - | - | 1,001 | 1 | - | 2,001 | - | 28,001 |
| Yale University | 19,001 | 4 | 7 | 30,001 | - | - | - | - | - | - | - | - | 0 | - | 32,001 |
| Harvard University | 38,004 | - | 3 | 41,004 | - | - | - | - | - | 1 | 1 | 1 | 2 | - | 44,004 |
| University of Colorado | 27,002 | 7,001 | 7 | 41,003 | - | - | - | - | - | 1 | 1 | 1 | 3 | - | 44,003 |
| U of Iowa | 18 | 5,001 | 3 | 26,001 | 1 | - | - | - | - | 2,001 | - | - | 2,001 | - | 29,002 |
| Ohio State University | 32,001 | 6 | 6,001 | 44,001 | - | - | - | - | - | 5,001 | 2 | 2 | 9,001 | - | 53,002 |
| U of Central Florida*** | 5 | 3 | 6,001 | 14,001 | - | - | - | - | - | 1 | 1,001 | - | 2,001 | - | 17,002 |
| Purdue University | 29,002 | 5 | 1 | 35,002 | - | - | - | - | - | 6 | - | 2 | 8 | - | 44,002 |
| University of Chicago | 26,001 | 4 | 4 | 34,001 | - | - | - | - | - | 1 | 1 | 1 | 3 | - | 37,001 |
| Texas A&M University | 35,001 | - | 2 | 37,001 | - | - | - | - | - | 2 | 1 | - | 3 | - | 40,001 |
| University of Florida | 8 | 3 | 1 | 12 | - | - | - | - | - | - | 1 | - | 1 | - | 15 |
| U of Tennessee System | 22,001 | 4 | - | 26,001 | 1 | - | - | - | - | - | 1 | - | 1 | - | 29,001 |
| Univ of Minnesota | 29,002 | 27 | 7 | 63,002 | - | - | - | - | - | 1 | 1 | 1 | 3 | - | 68,002 |
| U of NC Chapel Hill | 16,002 | 3 | 2 | 21,002 | - | - | - | - | - | 2 | 4 | 1 | 7 | - | 29,002 |
| U MA Amherst | 21,001 | 5 | 3 | 29,001 | - | - | - | - | - | 3 | 1 | 1 | 4 | - | 34,001 |
| U CA Irvine | 25,001 | 1 | 5,001 | 31,002 | - | - | - | - | - | 4 | 1,001 | 2 | 7,001 | - | 38,003 |
| Louisiana St U System | 22 | 7 | 4 | 33 | - | - | - | - | - | 4,004 | - | - | 4,004 | - | 39,005 |
| U Alabama Huntsville | 12,001 | 1 | 1 | 14,001 | - | - | - | - | - | 1 | 1 | 1 | 3 | - | 17,001 |
| University of Rochester | 17,001 | 2,001 | 3,001 | 22,003 | - | - | - | - | - | 3 | - | 1 | 4 | - | 26,003 |
| SUNY at Albany | 5,001 | 1 | 2,001 | 8,002 | - | - | - | - | - | 7 | 1 | 1 | 8 | - | 18,002 |
| University of Michigan | 34,002 | 7,002 | 7 | 48,004 | 1 | - | - | - | - | 2 | 1 | 1 | 4 | - | 58,004 |
| Univ of New Mexico | 15 | 8,003 | 2 | 25,003 | - | - | - | - | - | 3 | - | - | 3 | - | 28,003 |
| Kansas State University | 15 | 1 | 2,001 | 18,001 | - | - | - | - | - | 4,001 | 3,001 | 1 | 8,002 | - | 26,003 |
| Wayne State University | 11,001 | 6 | 6 | 23,001 | - | - | - | - | - | 5,001 | 1 | - | 6,001 | - | 29,002 |
| U CA Santa Cruz | 16,001 | 2,001 | - | 18,002 | - | - | - | - | - | - | 1 | - | 1 | - | 19,002 |
| Physics Total | 1268,061 | 238,021 | 209,019 | 1715,101 | 6 | 2 | 4 | 12 | 22,003 | 6 | 10,005 | 38,008 | 135,011 | 41,006 | 222,023 |
| Percent within race | 74% | 14% | 12% | 100% | 50% | 17% | 33% | 100% | 58% | 16% | 26% | 100% | 61% | 18% | 21% |
| Percent of grand total | 63.8% | 12.0% | 10.5% | 86.3% | 0.30% | 0.10% | 0.20% | 0.60% | 1.11% | 0.30% | 0.50% | 1.91% | 6.79% | 2.06% | 2.31% |
| Females in column | 4.8% | 8.8% | 9.1% | 5.9% | 0% | 0% | 0% | 0% | 9.1% | 0.0% | 50.0% | 18.4% | 8.1% | 14.6% | 13.0% |

According to physics research expenditures FY1999, NSF; numbers after decimals designate females. *Declined to participate, data are from other sources. ***/cheminfo.chem.ou.edu/faculty/djn/diversity/top50.html

Reference: "The Nelson Diversity Surveys": Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djn/diversity/top50.html>

Table 3. Tenured/Tenure-Track Faculty at the "Top 50" Mathematics Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | | Total |
|-------------------------------|-----------------|----------------|----------------|-----------|----------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-----------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | |
| Johns Hopkins U | 15 | - | 4,001 | - | - | 0 | - | - | - | 1 | - | 2 | - | - | - | 3 |
| U TX at Austin ** | 43,003 | 6,001 | 1 | 4,001 | 2 | 1 | 7,001 | 1 | 7,001 | 1 | - | - | - | - | - | 1 |
| G. Washington U | 7 | 3 | 13 | - | 1,001 | - | 1,001 | - | 1,001 | 3 | 5 | 1,001 | 4,001 | - | - | 8 |
| Rutgers, St U NJ ** | 51,003 | 5 | 11,001 | - | - | 0 | - | - | 0 | - | - | - | - | - | - | 1 |
| Boston College | 8,002 | 11,001 | 1 | - | - | 0 | - | - | 1 | 11 | 2 | 2 | 13 | - | - | 3 |
| NC State Univ | 25,002 | 13,001 | 4,002 | 3 | 1 | 0 | - | - | 0 | - | 3 | 1 | 1 | - | - | 7 |
| U of So Carolina | 20,001 | 11,001 | 3 | - | - | 0 | - | - | 0 | - | - | - | - | - | - | 3 |
| Brown Univ | 14,001 | 2,001 | 3,001 | - | - | 0 | - | - | 0 | - | 5 | 1 | 1 | - | - | 9 |
| Iowa State Univ | 22,001 | 11,001 | 4,001 | - | - | 0 | - | - | 0 | 3 | 5 | 3 | 7,001 | - | - | 19 |
| New York Univ | 32 | 4 | 3,001 | - | - | 0 | - | - | 0 | 2 | - | 2 | 4 | - | - | 8 |
| MA Inst of Tech | 29 | 5,001 | 12,002 | - | - | 0 | - | - | 1 | 1 | - | 1 | 1 | - | - | 6 |
| SUNY, Stony Brook | 20,002 | 2 | 4 | - | - | 0 | - | - | 1 | 1 | - | 1 | 1 | - | - | 6 |
| Univ of Minnesota | 50 | 8,001 | 3 | 2,001 | - | 0 | - | - | 2,001 | 2 | 3 | 1 | 6 | - | - | 12 |
| Univ of Georgia | 17 | 15,003 | 3 | - | - | 0 | - | - | 0 | 3 | 1 | 2 | 6 | - | - | 12 |
| U CA Los Angeles | 38 | 4 | 2 | - | - | 0 | - | - | 0 | - | - | - | - | - | - | 6 |
| Univ of Florida | 26,002 | 8 | 11,003 | 1 | - | 1 | 2 | - | 2 | 8,001 | 1 | 1 | 9,001 | - | - | 20 |
| Stanford Univ | 19 | 1,001 | 2,001 | - | - | 0 | - | - | 0 | 5,001 | 2 | 1 | 8,001 | - | - | 14 |
| Florida State Univ | 20,001 | 7 | 5,001 | - | - | 0 | - | - | 1 | 3 | 1 | 1,001 | 5,001 | - | - | 10 |
| U CA Berkeley | 56,003 | 2 | 3 | - | - | 0 | - | - | 0 | 2 | 1 | 1 | 4 | - | - | 10 |
| Georgia Inst Tech** | 23 | 7 | 8,001 | 1 | - | 1 | 1 | - | 1 | 5 | 3 | 2 | 10 | - | - | 20 |
| Carnegie Mellon U | 18 | 3 | 4 | - | - | 0 | - | - | 1 | 1 | - | - | 0 | - | - | 6 |
| U of Washington | 32,001 | 7,001 | 6 | 1,001 | - | 0 | 1,001 | - | 2,001 | 1 | 1 | 2,001 | 4,001 | - | - | 16 |
| U Tx Md Andrsn Ctr | 7 | - | - | - | - | 0 | - | - | 0 | - | - | - | - | - | - | 7 |
| U WI-Madison*** | 36,001 | 7,001 | 5,001 | - | - | 0 | - | - | 1 | 4 | - | 2 | 6 | - | - | 13 |
| Pennsylvania St U | 33,003 | 6,001 | 5,001 | 1 | - | 1,001 | 2,001 | - | 0 | 6,001 | 2 | 2,001 | 10,002 | - | - | 20 |
| Purdue University | 47,003 | 8,002 | 6,003 | 1 | - | 1 | 4 | - | 4 | 9 | 5,001 | 4,002 | 18,003 | - | - | 28 |
| Univ of Michigan | 45,002 | 5,001 | 4,001 | - | - | 1,001 | 1,001 | - | 1 | - | 2 | 1 | 3 | - | - | 7 |
| US Nav Postgrd Sch | 7 | 6,001 | - | - | - | 0 | - | - | 0 | 1 | 1 | 1 | 2 | - | - | 5 |
| Texas A&M Univ | 40,001 | 12,001 | 8,002 | - | - | 0 | - | - | 2 | 3 | 2 | 1,001 | 6,001 | - | - | 13 |
| Univ of IL Chicago | 42,003 | 7 | 10,001 | 1 | - | 1 | 1 | - | 2 | 2 | - | 2 | 4 | - | - | 10 |
| Cornell University | 32,002 | 2 | 2,001 | - | - | 0 | - | - | 1 | 2 | - | 1 | 3 | - | - | 6 |
| Princeton Univ | 22,001 | 1 | 6 | - | - | 0 | - | - | 1 | 4,001 | - | 5,002 | 9,003 | - | - | 13 |
| Boston University | 18,003 | 8,001 | 5,001 | - | - | 0 | - | - | 0 | 2 | 2 | 2 | 5 | - | - | 11 |
| Rice University | 12 | - | 1 | - | - | 0 | - | - | 0 | - | 1 | 1 | 1 | - | - | 4 |
| Univ of Arizona | 27,001 | 17,001 | 5 | - | - | 0 | - | - | 1 | 2,001 | 4,001 | 2 | 8,002 | - | - | 14 |
| U CA Santa Barbara | 20,001 | 2 | 2,001 | 1 | - | 1,001 | 1,001 | - | 3 | 3 | 2,001 | - | 5,001 | - | - | 10 |
| VA Polytech Inst | 31 | 12,004 | 2 | 1 | - | 1 | 1 | - | 1 | 2,001 | 4 | 1,001 | 7,002 | - | - | 16 |
| Yale University | 15 | - | - | - | - | 0 | - | - | 0 | 1 | - | - | 1 | - | - | 3 |
| W. Michigan U | 11,001 | 6,002 | 6,004 | 1 | - | 1 | 3,001 | - | 0 | - | 3,002 | - | 3,002 | - | - | 13 |
| U IL Urbana-Cham | 42,001 | 15,002 | 17,001 | - | - | 0 | - | - | 0 | 3,001 | - | - | 3,001 | - | - | 13 |
| U of So California | 19,001 | 4 | 3 | 1 | - | 1 | 1 | - | 1 | - | 1 | 1 | 2 | - | - | 7 |
| Univ of Colorado | 9 | - | 1,001 | 1 | - | 1 | 1 | - | 0 | - | 1 | 4,001 | 8,002 | - | - | 12 |
| Clemson Univ | 15,001 | 9,002 | 4,001 | - | - | 1 | - | - | 0 | 3,001 | 1 | 1 | 3 | - | - | 8 |
| San Diego St Univ | 14 | 4,002 | 5,003 | - | - | 0 | - | - | 2 | 2 | - | 1 | 3 | - | - | 10 |
| U of NB, Lincoln | 16,001 | 9,002 | 5,001 | - | - | 0 | - | - | 1 | 2 | - | 1 | 3 | - | - | 11 |
| CO School Mines | 7 | 7,002 | 1,001 | - | - | 0 | - | - | 1 | 1 | 1 | 1 | 2 | - | - | 6 |
| Harvard Univ | 14,001 | - | - | - | - | 0 | - | - | 0 | 2 | - | - | 2 | - | - | 4 |
| Colorado State Univ | 22,001 | 3 | 7,003 | - | - | 0 | - | - | 0 | - | - | - | 0 | - | - | 3 |
| U MA Amherst | 25,001 | 4 | 11,001 | 2 | - | 1,001 | 1,001 | - | 1,001 | 4,001 | - | 2 | 6,001 | - | - | 13 |
| Indiana University | 28 | 8,001 | 5,001 | 1 | - | 0 | - | - | 1 | 5 | 6,003 | 1 | 12,003 | - | - | 22 |
| Mathematics Total | 1241,051 | 297,039 | 226,044 | 12 | 4 | 3,002 | 19,002 | 28,003 | 12,003 | 15,001 | 55,007 | 120,010 | 65,008 | 57,012 | 242,030 | 2083,173 |
| Percent within race | 70% | 17% | 13% | 63% | 21% | 16% | 100% | 51% | 22% | 27% | 24% | 50% | 27% | 24% | 100% | 67% |
| Percent of grand total | 59.6% | 14.3% | 10.9% | 0.6% | 0.2% | 0.1% | 0.9% | 1.3% | 0.6% | 0.7% | 2.6% | 5.8% | 3.1% | 2.7% | 11.6% | 0.1% |
| Females in column | 4.1% | 13.1% | 19.5% | 0.0% | 0.0% | 66.7% | 10.5% | 10.7% | 25.0% | 6.7% | 12.7% | 8.3% | 12.3% | 21.1% | 12.4% | 0% |

* According to math research expenditures FY1999, NSF; numbers after decimals designate females. ** Declined; data are from other sources. *** Provided rank/gender data; race/ethnicity data are from other sources.
 Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfof.chem.ou.edu/faculty/djn/diversity/top50.html>

Table 4. Tenured/Tenure-Track Faculty at the "Top 50" Computer Science Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | | Total |
|-------------------------------|----------------|----------------|----------------|----------|----------|-----------|----------|----------|----------------|---------------|---------------|----------------|------------|----------|----------|------------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | |
| Johns Hopkins U | 7 | 1 | 7 | - | - | 0 | - | - | 1 | - | 1 | - | - | - | 0 | 17 |
| U of Illinois Urbana-Cham | 9 | 7,001 | 7,001 | - | - | 0 | - | - | 6 | 3,002 | 4 | - | - | - | 0 | 40,004 |
| Carnegie Mellon U | 18,001 | 13,002 | 5,002 | - | - | 0 | - | - | 4,001 | 1,001 | 2 | - | - | - | 0 | 43,007 |
| U of Southern California | 11 | 2,001 | 6 | - | - | 0 | - | - | 1 | 1 | 2 | - | - | - | 0 | 23,001 |
| U CA San Diego | 20,002 | 5 | 6 | - | - | 0 | - | - | 7,001 | - | 1 | - | - | - | 0 | 39,003 |
| MA Institute of Tech | 23,004 | 8,001 | 7 | - | - | 0 | - | - | 3 | 2 | 1 | - | - | - | 0 | 45,005 |
| Georgia Institute of Tech | 13,002 | 13,003 | 16,004 | - | - | 0 | - | - | 7 | 6,001 | 5 | - | - | - | 0 | 63,010 |
| U MD at College Park | 19,001 | 6,002 | 5,001 | 1 | - | 1 | - | - | 3 | 3 | 3 | - | - | - | 0 | 40,004 |
| U TX at Austin | 13 | 9,002 | 7,003 | - | - | 0 | - | - | 6,001 | - | 2 | - | - | - | 0 | 37,006 |
| Cornell University | 15,002 | 6,001 | 10 | - | - | 0 | - | - | - | - | 1,001 | - | - | - | 0 | 32,004 |
| Stanford University | 15 | 8,002 | 7,001 | - | - | 0 | - | - | 1,001 | - | - | - | - | - | 0 | 33,004 |
| Ohio State University | 4,001 | 7 | 5 | - | - | 0 | - | - | 7 | 5 | 5 | - | - | - | 0 | 33,001 |
| Syracuse University | 6 | 5 | 3,002 | - | - | 0 | - | - | 9 | 2 | 3 | - | - | - | 0 | 30,002 |
| University of Utah | 12,001 | 5,001 | 4,001 | - | - | 0 | - | - | 1 | - | 1 | - | - | - | 0 | 23,003 |
| U of Alaska Fairbanks | 3,001 | 6 | 9,002 | - | - | 0 | - | - | - | - | - | - | - | - | 0 | 18,003 |
| Rice University | 8 | 4,001 | 2 | - | - | 0 | - | - | - | 1,001 | - | - | - | - | 0 | 15,002 |
| U MA Amherst | 17,003 | 8,001 | 3 | - | - | 0 | - | - | 2 | 1 | 1 | - | - | - | 0 | 32,004 |
| California Inst of Tech | 3 | 2 | 3 | - | - | 0 | - | - | 1 | 1 | - | - | - | - | 0 | 10 |
| University of Michigan | 21,001 | 5 | 6 | - | - | 0 | - | - | 3 | 1 | 3 | - | - | - | 0 | 39,001 |
| U of NC Chapel Hill | 12 | 4 | - | - | - | 0 | - | - | 2 | 2,001 | 2 | - | - | - | 0 | 23,001 |
| OR Grad Inst Sci & Tech | 14,002 | 3 | 1 | - | - | 0 | - | - | - | 1 | 1 | - | - | - | 0 | 20,002 |
| U of Pennsylvania | 12,002 | 12,001 | 4 | - | - | 0 | - | - | 4 | - | 4,001 | - | - | - | 0 | 37,004 |
| Washington University | 3,001 | 3 | 7,001 | - | - | 0 | - | - | - | 2 | 1 | - | - | - | 0 | 16,002 |
| U CA Los Angeles | 12,002 | 5 | 3 | - | - | 0 | - | - | 4,001 | - | 2 | - | - | - | 0 | 27,003 |
| U of Tennessee System | 8,001 | 9 | 2 | 1 | - | 1 | - | - | - | - | 1 | - | - | - | 0 | 21,001 |
| SUNY at Buffalo | 3 | 5,001 | 2 | - | - | 0 | - | - | 3 | 7,002 | 4 | - | - | - | 0 | 24,003 |
| University of Minnesota | 6,001 | 5 | 6,001 | - | - | 0 | - | - | 9,001 | 2 | 2 | - | - | - | 0 | 30,003 |
| University of Colorado | 11 | 9,002 | 5,001 | 1 | - | 1 | - | - | - | 1 | 1 | - | - | - | 0 | 28,003 |
| U WI-Madison | 22,002 | 1,001 | 7,001 | - | - | 0 | - | - | 3 | 1 | 1 | - | - | - | 0 | 35,004 |
| Rutgers the State U NJ | - | 2 | - | - | - | 0 | - | - | 1 | 1 | 2,002 | - | - | - | 0 | 6,002 |
| U of Alabama Huntsville | 2,001 | 3 | 5,002 | - | - | 0 | - | - | 2 | 1 | - | - | - | - | 0 | 13,003 |
| New York University | 15,002 | 6 | 4 | - | - | 0 | - | - | 2 | - | 1 | - | - | - | 0 | 28,002 |
| Purdue University | 15,001 | 6,001 | 4,001 | - | - | 0 | - | - | 3 | 2 | 5 | - | - | - | 0 | 35,003 |
| University of Virginia | 9,001 | 5 | 6 | - | - | 0 | - | - | 1 | - | 1 | - | - | - | 0 | 21,001 |
| New Mexico State Univ | 1 | 4 | 4 | - | - | 0 | - | - | - | 2 | 1 | - | - | - | 0 | 10 |
| Columbia U, City of NY | 13,002 | 3 | 6 | - | - | 0 | - | - | - | - | - | - | - | - | 0 | 22,002 |
| U of Washington | 19,003 | 6 | 8 | - | - | 0 | - | - | 1 | - | 1 | - | - | - | 0 | 36,003 |
| U CA Irvine | 14,002 | 12,002 | 5,002 | - | - | 0 | - | - | 2 | 2 | 4,001 | - | - | - | 0 | 39,007 |
| University of Arizona | 3 | 5,001 | 5 | - | - | 0 | - | - | 2 | - | 2,001 | - | - | - | 0 | 17,002 |
| Brown University | 11 | 3 | 6,002 | - | - | 0 | - | - | 1,001 | - | - | - | - | - | 0 | 21,002 |
| Univ of Alabama | 1 | 6,001 | 2 | - | - | 0 | - | - | 1 | 1,001 | - | - | - | - | 0 | 12,002 |
| Calif Polytechnic | 16,001 | 6,002 | 2 | - | - | 0 | - | - | 2 | - | 2,001 | - | - | - | 0 | 26,004 |
| Princeton University | 10,001 | 1 | 5 | - | - | 0 | - | - | 2 | 2 | 5,001 | - | - | - | 0 | 25,002 |
| University of Florida | 3 | 6,001 | 7 | - | - | 0 | - | - | 8 | 2,001 | 1 | - | - | - | 0 | 28,002 |
| US Naval Postgrad Sch | 4 | 6,001 | 1 | - | - | 0 | - | - | 1,001 | 2 | 1 | - | - | - | 0 | 15,002 |
| U of LA at Lafayette | 1 | 3 | 5,001 | - | - | 0 | - | - | 4 | 5 | 2 | - | - | - | 0 | 20,001 |
| SUNY at Stony Brook | 9 | 4,001 | 9,001 | - | - | 0 | - | - | 2 | 2,001 | 4 | - | - | - | 0 | 30,003 |
| University of Oregon | 8,001 | 6,002 | 2 | - | - | 0 | - | - | - | 1,001 | - | - | - | - | 0 | 17,004 |
| Texas A&M University | 11 | 6,002 | 3 | - | - | 0 | - | - | 1 | 3 | 4 | - | - | - | 0 | 28,002 |
| University of Kansas | 2 | 7,002 | 1 | - | - | 0 | - | - | - | - | - | - | - | - | 0 | 10,002 |
| Computer Science Total | 507,045 | 280,039 | 245,030 | 1 | 2 | 17 | 4 | 6 | 121,008 | 68,012 | 90,007 | 279,027 | 0 | 0 | 0 | 1,332,141 |
| Percent within race | 49% | 27% | 24% | 25% | 50% | 100% | 41% | 24% | 43% | 24% | 32% | 100% | 0% | 0% | 0% | 0% |
| Percent of grand total | 38.1% | 21.0% | 18.4% | 0.1% | 0.2% | 0.1% | 0.3% | 0.5% | 9.1% | 5.1% | 6.8% | 20.9% | 0% | 0% | 0% | 100% |
| Females in column | 8.9% | 13.9% | 12.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 6.6% | 17.6% | 7.8% | 9.7% | 0% | 0% | 0% | 10.6% |

* According to computer science research expenditures FY1999, NSF; numbers after decimals designate females.

Table 5. Tenured/Tenure-Track Faculty at the "Top 50" Chemical Engineering Departments by Race/Ethnicity, by Gender, and by Rank (FY 2002)*

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | Total | | |
|-------------------------------|---------------|---------------|---------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|---------------|-------------|-------------|---------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | | Asst | Tot |
| MA Institute of Tech | 21.01 | 4.01 | 4 | 1.01 | 1.01 | 1.01 | 1 | 1.01 | 1.01 | 1 | 1.01 | 1.01 | 1 | 1.01 | 1.01 | 2.01 | 32.04 |
| NC State University | 9.01 | 4 | 4 | 1.01 | 1.01 | 1.01 | 1 | 1.01 | 1.01 | 1 | 1.01 | 1.01 | 1 | 1.01 | 1.01 | 2 | 21.02 |
| University of Minnesota | 23 | 6.02 | 4 | | | | | | | | | | | | | 2 | 35.02 |
| Texas A&M University | 13.01 | 1 | 3.01 | | | | | | | | | | | | | 0 | 17.02 |
| U TX at Austin | 11 | 1 | 3.01 | | | | | | | | | | | | | 4.01 | 21.02 |
| New Mexico State Univ | 3 | 3.01 | 1.01 | | | | | | | | | | | | | 0 | 8.02 |
| U WI-Madison | 6 | 6.01 | 3 | | | | | | | | | | | | | 1 | 17.01 |
| Stanford University | 7.01 | | 1.01 | | | | | | | | | | | | | 1 | 11.03 |
| University of Delaware | 12 | 3.01 | 2.01 | | | | | | | | | | | | | 1 | 19.02 |
| U of Oklahoma | 7 | 3 | 3.01 | | | | | | | | | | | | | 1 | 16.01 |
| U of South Carolina | 6 | 5 | 3 | | | | | | | | | | | | | 0 | 16.01 |
| Case Western Reserve U | 6 | 2 | 2.01 | | | | | | | | | | | | | 2 | 13.01 |
| Georgia Institute of Tech | 13.01 | 9.01 | 4 | | | | | | | | | | | | | 5 | 32.02 |
| Purdue University | 12 | 1 | 4 | | | | | | | | | | | | | 5.01 | 23.01 |
| University of Florida | 7 | 1 | 2 | | | | | | | | | | | | | 7 | 18 |
| Johns Hopkins U | 5.01 | 1 | 4 | | | | | | | | | | | | | 0 | 10.01 |
| U of Washington | 10.01 | 3.01 | 1 | | | | | | | | | | | | | 1 | 16.02 |
| U of Illinois Urbana-Cham | 6 | 4.01 | 2 | | | | | | | | | | | | | 2 | 14.01 |
| Michigan State U | 8 | 1.01 | 1 | | | | | | | | | | | | | 1.01 | 15.02 |
| University of Utah | 8.01 | 3.01 | 2 | | | | | | | | | | | | | 1 | 15.02 |
| NM Inst Mining & Tech | | 2 | | | | | | | | | | | | | | 2 | 4 |
| U CA Santa Barbara | 17 | 1 | 1 | | | | | | | | | | | | | 2 | 21 |
| Pennsylvania State U | 8.01 | 4 | 2.01 | | | | | | | | | | | | | 1 | 16.02 |
| University of Arizona | 2 | 4.01 | 3 | | | | | | | | | | | | | 0 | 14.01 |
| Ohio State U | 4 | 3 | 1 | | | | | | | | | | | | | 2 | 15.02 |
| Colorado School of Mines | 9.01 | 4 | 2.01 | | | | | | | | | | | | | 1 | 16.02 |
| U CA Davis | 15.03 | 2.01 | 3.02 | | | | | | | | | | | | | 3 | 23.06 |
| California Inst of Tech | 8.02 | 1 | | | | | | | | | | | | | | 1 | 11.02 |
| U CA Berkeley | 15.01 | 1.01 | 2 | | | | | | | | | | | | | 0 | 18.02 |
| Auburn University | 10.01 | 1 | 3 | | | | | | | | | | | | | 3 | 17.01 |
| Lehigh University | 10 | 1.01 | 1 | | | | | | | | | | | | | 2 | 17.01 |
| Carnegie Mellon U | 10 | 2 | 5.01 | | | | | | | | | | | | | 1 | 19.01 |
| U MA Amherst | 5 | 3 | 2.02 | | | | | | | | | | | | | 2.01 | 12.03 |
| Michigan Tech U | 4 | 5.02 | 1 | | | | | | | | | | | | | 3 | 13.02 |
| Univ of Alabama | 4 | 4 | 3.01 | | | | | | | | | | | | | 0 | 11.01 |
| Arizona State University | 7 | 4.01 | 3.02 | | | | | | | | | | | | | 1 | 19.03 |
| Louisiana St U System | 16 | 5.02 | 3.01 | | | | | | | | | | | | | 2 | 28.03 |
| University of Colorado | 9 | 3.01 | 2.01 | | | | | | | | | | | | | 2 | 16.02 |
| U of Tennessee System | 5 | 4 | 1 | | | | | | | | | | | | | 1.01 | 11.01 |
| Northwestern University | 9 | 2.01 | 4.01 | | | | | | | | | | | | | 1.01 | 17.03 |
| U of Missouri Columbia | | 2 | 4.01 | | | | | | | | | | | | | 4 | 11.01 |
| VA Polytechnic Inst | 7 | 4.02 | 2 | | | | | | | | | | | | | 3 | 16.02 |
| Princeton University | 12.01 | 1.01 | 4.01 | | | | | | | | | | | | | 2 | 19.03 |
| Rutgers the State U NJ | 8 | 1.01 | 4.01 | | | | | | | | | | | | | 3 | 18.03 |
| Cornell University | 7.01 | 3 | | | | | | | | | | | | | | 2 | 14.01 |
| U CA Los Angeles | 7 | 2 | | | | | | | | | | | | | | 1.01 | 11.01 |
| University of New Mexico | 6.01 | 3 | 1 | | | | | | | | | | | | | 1 | 12.01 |
| Rensselaer Polytech Inst | 12 | 1 | | | | | | | | | | | | | | 2 | 15 |
| University of Michigan | 6 | 5.03 | 1 | | | | | | | | | | | | | 2 | 15.03 |
| U of Alabama Huntsville | 1 | 2 | | | | | | | | | | | | | | 2 | 6 |
| Chem Engr Total | 426.20 | 141.29 | 111.23 | 7** | 6.02 | 0 | 13.02 | 8 | 5.03 | 27.03 | 56.02 | 17.02 | 29.05 | 102.09 | 0 | 0 | 820.86 |
| Percent within race | 63% | 21% | 16% | 0% | 46% | 0% | 100% | 52% | 30% | 19% | 55% | 17% | 28% | 100% | 0% | 0% | 100% |
| Percent of grand total | 51.9% | 17.2% | 13.6% | 0.9% | 0.7% | 0.0% | 1.6% | 1.7% | 1.0% | 0.6% | 6.8% | 2.1% | 3.5% | 12.4% | 0.0% | 0.0% | 10.5% |
| Females in column | 4.7% | 20.5% | 20.7% | 10.6% | 0.0% | 33.2% | 0.0% | 15.4% | 0.0% | 59.6% | 3.6% | 11.8% | 17.2% | 8.8% | 0% | 0% | 10.5% |

*According to chemical engineering research expenditures FY 1999; NSF; numbers after decimals designate females. **One professor is reported in both chemistry & chemical engineering. Reference: "The Nelson Diversity Surveys" Nelson, D. J.: Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djn/diversity/top50.html>

Table 6. Tenured/Tenure-Track Faculty at the "Top 50" Civil Engineering Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | | Total | |
|-------------------------------|----------------|----------------|----------------|------------------|----------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|---------------|---------------|----------------|------------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | | Tot |
| Texas A&M University | 19,001 | 14 | 9,004 | 1 | - | - | 1 | - | - | 4 | 1 | 1 | 4 | - | - | 6 | 53,006 |
| U CA Berkeley | 24,001 | 11,001 | 5,001 | 3,001 | 2 | - | 3,001 | 2 | - | 1 | 1 | 3,001 | 1 | - | - | 5,001 | 50,005 |
| MA Institute of Tech | 21,001 | 6,003 | 5,001 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | 1 | - | - | 3 | 38,005 |
| U TX at Austin | 28,001 | 9,001 | 12,005 | 49,007 | 1 | - | 1 | 1 | - | - | - | 1 | 1 | - | - | 1 | 52,007 |
| U of IL Urbana-Cham | 20 | 6,003 | 13,001 | 39,004 | - | - | 2 | 1 | 1 | 2 | 2 | 1 | 2 | - | - | 5 | 48,004 |
| University of Michiga | 16,001 | 3,002 | 4,001 | 23,004 | - | - | - | 1 | 1 | 2 | - | - | 2 | - | - | 2 | 27,005 |
| Georgia Inst of Tech | 18 | 14,002 | 7,002 | 39,004 | - | - | 2 | 1 | - | 1 | - | 1,001 | 2 | - | - | 2,001 | 46,006 |
| SUNY at Buffalo | 7 | 6 | 2 | 15 | - | - | - | - | - | 4 | 2 | 1,001 | 4 | - | - | 7,001 | 22,001 |
| NC State University | 14 | 8,001 | 3,001 | 25,002 | - | - | - | 1 | 1 | 1 | 3 | 5 | 4 | - | - | 12 | 39,002 |
| Purdue University | 19,001 | 12,001 | 6,001 | 37,003 | - | - | 1 | 1 | 1 | 3 | 6,002 | 2 | 11,002 | - | - | 17,002 | 52,005 |
| University of Florida | 11 | 13 | 12,001 | 36,001 | - | - | 1 | - | - | 5 | - | - | - | - | - | 5 | 43,001 |
| VA Polytech Inst & S | 20 | 17,002 | 3,001 | 40,003 | - | - | 1 | 1 | 2 | 1 | 1 | 1 | 1 | - | - | 1 | 46,003 |
| Pennsylvania State U | 14 | 9,003 | 7,002 | 30,005 | - | - | - | 1 | - | 1 | 1 | 1 | 1 | - | - | 2 | 33,005 |
| Univ of Connecticut | 8 | 6,002 | 3,002 | 17,004 | - | - | - | 1 | - | - | 1 | 1 | 1 | - | - | 1 | 19,004 |
| U CA Davis | 18,003 | 5 | 2 | 25,003 | 1 | - | - | - | - | 1 | 2 | 2 | 1,001 | - | - | 3 | 29,003 |
| Univ of Cincinnati | 4 | 9 | 4 | 17 | - | - | - | - | - | 2 | 2 | 1,001 | 5,001 | - | - | 22,001 | |
| U of South Florida | 7 | 5,002 | 6 | 18,002 | - | - | 1 | - | - | 1 | 1 | - | 1 | - | - | 1 | 20,002 |
| Univ of Minnesota | 15,002 | 8,001 | 6,001 | 29,004 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | 31,004 |
| University of Utah | 1 | 5,001 | 2,001 | 8,002 | - | - | - | 1 | 1 | - | 1 | 1 | - | - | - | 1 | 11,002 |
| U of Tennessee Syst | 10 | 4 | - | 14 | - | - | - | - | - | - | 2 | 2,001 | 5,001 | - | - | 7 | 19,001 |
| University of Arizona | 1 | 2 | 4 | 7 | - | - | 1 | - | - | 7 | - | - | 7 | - | - | 15 | 23,002 |
| Stanford University | 12,001 | 6,001 | 1 | 19,002 | - | - | 1 | 1 | 2 | 1 | - | 1 | 2 | - | - | 3 | 20,003 |
| Arizona State Univ | 6,001 | 5 | 5,002 | 16,003 | - | - | - | - | 0 | 2 | 2 | 1 | 3 | - | - | 4 | 29,003 |
| U MD at College Park | 12,001 | 4 | 6,001 | 22,002 | 1 | - | - | 1,001 | - | 1,001 | - | - | 1 | - | - | 2 | 23,002 |
| U of Iowa | 7 | 6,001 | 2,001 | 15,002 | - | - | 1 | - | - | 3 | 2 | 2 | 7 | - | - | 12 | 32,004 |
| Iowa State University | 10 | 9,001 | 7,002 | 26,003 | - | - | - | - | - | 1 | 1 | 4,001 | 6,001 | - | - | 11 | 30,003 |
| U of Washington | 18,002 | 6 | 2,001 | 26,003 | - | - | - | - | - | 1 | 1 | 1 | 2 | - | - | 3 | 8,002 |
| Johns Hopkins U | 1 | 1 | 3,002 | 5,002 | - | - | - | - | - | 2 | - | 1 | 3 | - | - | 4 | 29,001 |
| Louisiana St U Syste | 10 | 7,001 | 6 | 23,001 | - | - | - | 1 | 1 | 1 | 3 | 4 | 4 | - | - | 14 | 17,002 |
| West Virginia Univ | 2 | 4 | 1 | 7 | - | - | 1 | 1 | 2 | 5 | 5 | 5 | 5 | - | - | 18 | 20,005 |
| Univ of New Mexico | 9 | 3,001 | 1,001 | 13,002 | - | - | - | - | - | 2 | 1 | 1 | 4 | - | - | 4 | 17,001 |
| Clemson University | 8 | 4 | 6 | 18 | - | - | - | - | - | - | - | - | 0 | - | - | 0 | 27,004 |
| Ohio State University | 7,001 | 3,001 | 7,003 | 17,005 | 1 | - | - | - | - | 1 | 1 | 1 | 2 | - | - | 2 | 20,005 |
| Lehigh University | 7 | 3,001 | 2 | 12,001 | - | - | - | - | - | 2 | 1 | 1 | 4 | - | - | 4 | 17,001 |
| Michigan Tech Univ | 9 | 10,001 | 8,003 | 27,004 | - | - | - | - | - | 2 | 2 | 2 | 7 | - | - | 11 | 27,004 |
| University of Delawar | 8 | 4 | 2 | 14 | - | - | 1 | - | - | 3 | 2 | 2 | 7 | - | - | 12 | 22 |
| Cornell University | 17,002 | 4,001 | 5,004 | 26,007 | - | - | - | - | - | 1 | - | - | 1 | - | - | 1 | 27,007 |
| University of Colorado | 15,001 | 9 | 6,001 | 30,002 | - | - | 1 | 1 | 2 | 3 | 1 | - | 4 | - | - | 4 | 36,002 |
| Rensselaer Polytech | 8 | 2 | 4,001 | 14,001 | - | - | - | - | - | - | 2,001 | - | 2,001 | - | - | 0 | 14,001 |
| Drexel University | 8,001 | 2 | 5,002 | 15,003 | - | - | - | - | - | - | - | - | 2,001 | - | - | 1 | 17,004 |
| Colorado State Univ | 25,002 | 4 | 3 | 32,002 | - | - | 1 | 2 | 3 | 1 | 1 | 1 | 1 | - | - | 4 | 37,002 |
| Texas Tech University | 8 | 5 | 3 | 16 | - | - | - | - | - | 2 | 1 | 1 | 4 | - | - | 4 | 20 |
| U of So California | 12 | 4 | 1 | 17 | - | - | - | - | - | 3 | 2 | - | 5 | - | - | 5 | 22 |
| U CA Irvine | 7 | 3,001 | 3,002 | 13,003 | - | - | 1 | - | 1 | 3 | 1,001 | - | 4,001 | - | - | 5 | 18,004 |
| Oregon State Univ | 10 | 4 | 7,002 | 21,002 | - | - | - | - | - | 2 | - | - | 2 | - | - | 2 | 23,002 |
| U of Missouri Columbi | 3 | 6 | 5,002 | 14,002 | - | - | - | - | - | 1 | 1 | 1 | 3 | - | - | 3 | 17,002 |
| U of NB at Lincoln | 9 | 9 | 5,001 | 23,001 | - | - | - | - | - | 1 | - | - | 0 | - | - | 1 | 23,001 |
| Princeton University | 7 | 2,001 | - | 9,001 | - | - | - | - | - | 1 | - | - | 1 | - | - | 1 | 12,001 |
| Northwestern Univ | 16 | 4,001 | 3 | 23,001 | - | - | - | - | - | 2 | - | - | 2 | - | - | 2 | 25,001 |
| Univ of Oklahoma | 4 | 4 | 2,001 | 10,001 | - | - | - | - | - | 1 | 1 | - | 2 | - | - | 2 | 12,001 |
| Civil Engr Total | 570,023 | 309,037 | 226,057 | 1,105,117 | 4 | 5,001 | 11,001 | 20,002 | 22,001 | 13,001 | 16,001 | 51,003 | 84 | 47,004 | 39,006 | 170,010 | 1,347,132 |
| Percent within race | 52% | 28% | 20% | 100% | 20% | 25% | 55% | 100% | 43% | 25% | 31% | 100% | 49% | 28% | 23% | 100% | 100% |
| Percent of grand total | 42.3% | 22.9% | 16.8% | 82.0% | 0.3% | 0.4% | 0.8% | 1.5% | 1.6% | 1.0% | 1.2% | 3.8% | 6.2% | 3.5% | 2.9% | 12.6% | 0.1% |
| Females in column | 4.0% | 12.0% | 25.2% | 10.6% | 0.0% | 20.0% | 9.1% | 10.0% | 4.5% | 7.7% | 6.2% | 5.9% | 0.0% | 8.5% | 15.4% | 5.9% | 9.8% |

*According to civil engineering research expenditures FY1999, NSF; numbers after decimals designate females.
 Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfof.chem.ou.edu/faculty/djn/diversity/top50.html>

Table 7. Tenured/Tenure-Track Faculty at the "Top 50" Electrical Engineering Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | Total | | |
|-------------------------------|----------------|----------------|----------------|------------------|----------|---------------|--------------|---------------|-----------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|----------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | | Asst | Tot |
| Georgia Institute of Tech | 44,002 | 23,004 | 17,001 | 84,007 | 2 | - | 2 | - | 2 | 7 | 6,001 | 3 | 16,001 | - | - | 0 | 104,008 |
| Johns Hopkins U | 11 | 1 | 1 | 13 | - | - | 1 | - | 1 | - | 1 | 1 | 2 | - | - | 0 | 17 |
| U CA Berkeley | 23,001 | 3 | 2 | 28,001 | - | - | 0 | - | 1 | 8,001 | 3,001 | 2 | 13,002 | - | - | 0 | 42,003 |
| University of Michigan | 44,003 | 13 | 11 | 68,003 | - | - | 1 | - | 1 | 7,001 | 2 | 7,001 | 16,002 | - | - | 0 | 86,005 |
| Pennsylvania State U | 14 | 13,002 | 4,002 | 31,004 | - | - | 0 | - | 1,001 | 6 | 2,001 | 1 | 9,001 | - | - | 0 | 43,006 |
| Stanford University | 23 | 7,001 | 8,002 | 38,003 | - | - | 2 | - | 1 | 6,001 | 3 | 3 | 12,001 | - | - | 0 | 53,004 |
| U of Illinois Urbana | 36 | 12,002 | 13,001 | 61,003 | - | - | 2 | - | 1 | 14 | 6 | 5 | 25 | - | - | 0 | 89,003 |
| Utah State University | 8,001 | 6,001 | 3 | 17,002 | - | - | 0 | - | - | 9 | 3 | 1 | 13 | - | - | 0 | 18,002 |
| MA Institute of Tech | 39,003 | 10,001 | 4,001 | 53,005 | - | - | 2 | - | 2 | 18 | 1 | 1 | 20 | - | - | 0 | 71,005 |
| U CA Los Angeles | 16,001 | 4,001 | 2 | 22,002 | - | - | 0 | - | 1 | 4 | 1 | 1,001 | 6,001 | - | - | 0 | 44,002 |
| U of Southern California | 1,001 | - | - | 1,001 | - | - | 2,001 | - | 1 | - | - | - | - | - | - | 0 | 10,003 |
| U CA Santa Barbara | 22,002 | 2 | - | 24,002 | - | - | 0 | - | - | 8,001 | 2 | 2 | 12,001 | - | - | 0 | 36,003 |
| U CA San Diego | 18 | 4,001 | - | 22,001 | - | - | 0 | - | 1 | 13 | 4 | - | 17 | - | - | 0 | 40,001 |
| Princeton University | 13 | 1,001 | 2 | 16,001 | - | - | 0 | - | - | 9,001 | 1 | 1,001 | 11,002 | - | - | 0 | 27,001 |
| Purdue University | 35,002 | 13,003 | 3 | 51,005 | - | - | 0 | - | - | 10 | 3 | 3,001 | 16,001 | - | - | 0 | 67,006 |
| Cornell University | 17 | 5,001 | 7,002 | 29,003 | 1 | 1 | 2 | - | - | 3 | 2 | 2 | 7 | - | - | 0 | 38,003 |
| VA Polytech Inst & St U | 28 | 13 | 9,001 | 50,001 | - | - | 1 | - | 1 | 9,001 | 5 | 4 | 18,001 | - | - | 0 | 71,002 |
| University of Arizona | 17 | 8,001 | 3,001 | 28,002 | - | - | 0 | - | 2 | 1 | 1 | - | 2 | - | - | 0 | 32,002 |
| U MD at College Park | 36,001 | 6 | 7,002 | 49,003 | - | - | 2,001 | - | 1 | 10 | 2 | 6,001 | 18,001 | - | - | 0 | 70,005 |
| U TX at Austin | 30 | 11,002 | 3 | 44,002 | - | - | 1 | - | 1 | 9 | 1,001 | - | 10,001 | - | - | 0 | 56,003 |
| NC State University | 21,001 | 12,001 | 6,001 | 39,003 | 1 | - | 1 | - | - | 4 | - | 1 | 5 | - | - | 0 | 45,003 |
| Rensselaer Polytech Ins | 20 | 6 | 3 | 29 | - | - | 0 | - | - | 8 | - | 3 | 11 | - | - | 0 | 41,001 |
| Carnegie Mellon U | 23 | 4 | 5,001 | 32,001 | 1 | 1 | 2 | - | 1,001 | 6 | 2 | 2 | 10 | - | - | 0 | 45,001 |
| Arizona State University | 15 | 12 | 3 | 30 | - | - | 0 | - | 1 | 7,001 | 3,001 | 7,003 | 17,005 | - | - | 0 | 48,005 |
| Ohio State University | 19,001 | 15,002 | 4 | 38,003 | - | - | 0 | - | 1 | 2 | 5 | 2 | 9 | - | - | 0 | 49,003 |
| California Inst of Tech | 10,001 | 1,001 | 2 | 13,002 | - | - | 0 | - | - | 2 | - | - | 2 | - | - | 0 | 15,002 |
| U of South Carolina | 5 | 4 | 1 | 10 | - | - | 0 | - | 1 | 2 | 1 | 1 | 4 | - | - | 0 | 15 |
| U WI-Madison | 18,001 | 7 | 2,001 | 27,002 | - | - | 1 | - | - | 2 | 2 | 5 | 9 | - | - | 0 | 39,002 |
| University of Kansas | 7 | 1 | 2 | 10 | - | - | 0 | - | - | 2 | - | 1 | 3 | - | - | 0 | 13 |
| Univ of New Mexico | 14 | 6,001 | 5 | 25,001 | - | - | 0 | - | - | 2 | 2,001 | 2 | 6,001 | - | - | 0 | 32,002 |
| University of Colorado | 15,002 | 8,001 | 4 | 27,003 | - | - | 0 | - | 1 | 2 | 3,001 | 2 | 7,001 | - | - | 0 | 35,004 |
| University of Cincinnati | 7 | 4 | 2 | 13 | - | - | 0 | - | 1 | 5 | 2 | 1 | 8 | - | - | 0 | 22 |
| University of Minnesota | 19,001 | 8 | 6,001 | 30,001 | - | - | 1,001 | - | - | 5 | 3 | - | 8 | - | - | 0 | 10,001 |
| Northeastern University | 11 | 16,001 | 3 | 30,001 | - | - | 0 | - | - | 3,001 | 1 | 1 | 5,001 | - | - | 0 | 35,002 |
| Iowa State University | 12 | 10,001 | 5,001 | 27,002 | - | - | 0 | - | 1,001 | 7,001 | 6 | 4 | 17,001 | - | - | 0 | 45,004 |
| Texas Tech University | 6 | 5,001 | 5,001 | 16,002 | - | - | 0 | - | - | 2,001 | - | - | 2,001 | - | - | 0 | 18,003 |
| Clemson University | 12,001 | 6 | 4 | 22,001 | - | - | 1 | - | - | 2 | 1 | 1 | 4 | - | - | 0 | 27,001 |
| Rutgers the State U NJ | 8,002 | 5,001 | 5,001 | 18,004 | - | - | 3,001 | - | - | 5 | 2 | 1 | 8 | - | - | 0 | 29,005 |
| University of IL Chicago | 6 | - | - | 6 | - | - | 0 | - | - | 9,001 | 6 | 3 | 18,001 | - | - | 0 | 24,001 |
| New Mexico State Univ | 7 | 3 | 3 | 13 | - | - | 0 | - | 2 | 2 | 1 | 1 | 4 | - | - | 0 | 22 |
| University of Delaware | 7 | 4 | 2 | 13 | - | - | 1 | - | 1 | 2 | 1 | 1 | 4 | - | - | 0 | 20 |
| Duke University | 11,001 | 1 | 2,001 | 14,002 | - | - | 0 | - | - | 2 | 1 | 1 | 4 | - | - | 0 | 18,002 |
| Northwestern University | 9,001 | 4,001 | 2 | 15,002 | - | - | 1,001 | - | 1 | 5 | 4 | 2 | 11 | - | - | 0 | 29,003 |
| Case Western Reserve | 4 | 7 | 1 | 12 | - | - | 0 | - | - | 1 | 1 | 1 | 2 | - | - | 0 | 14 |
| Vanderbilt University | 6 | 4 | 3 | 13 | - | - | 0 | - | - | 2 | 7 | - | 9 | - | - | 0 | 22 |
| Texas A&M University | 20,001 | 7 | 2 | 29,001 | - | - | 1,001 | - | 1 | 9,001 | 4 | 5 | 18,001 | - | - | 0 | 50,003 |
| U of Alabama Huntsville | 10 | 4,001 | 4,002 | 18,003 | - | - | 0 | - | 1 | 3 | 1 | - | 4 | - | - | 0 | 23,003 |
| University of Florida | 12 | 7 | 3 | 22 | - | - | 1,001 | - | 1 | 7,001 | 4 | 2 | 13,001 | - | - | 0 | 39,002 |
| U MA Amherst | 10 | 12,001 | 3 | 25,001 | - | - | 1 | - | - | 5 | 1,001 | 1 | 7,001 | - | - | 0 | 33,002 |
| U of Missouri Columbia | 8 | 6 | 11 | 25 | - | - | 0 | - | - | - | - | - | 0 | - | - | 0 | 25 |
| Electrical Engr Total | 827,030 | 344,034 | 202,023 | 1,373,087 | 7 | 20,005 | 7,002 | 34,007 | 18 | 21,002 | 10,001 | 49,003 | 94,008 | 266,013 | 113,008 | 94,008 | 473,029 |
| Percent within race | 60% | 25% | 15% | 100% | 21% | 59% | 21% | 100% | 37% | 43% | 20% | 100% | 20% | 56% | 24% | 20% | 100% |
| Percent of grand total | 42.9% | 17.8% | 10.5% | 71.2% | 0.4% | 1.0% | 0.4% | 1.8% | 0.9% | 1.1% | 0.5% | 2.5% | 4.9% | 13.8% | 5.9% | 4.9% | 24.5% |
| Females in column | 3.6% | 9.9% | 11.4% | 6.3% | 0.0% | 25.0% | 28.6% | 20.6% | 0.0% | 9.5% | 10.0% | 6.1% | 8.5% | 4.9% | 7.1% | 8.5% | 6.1% |

*According to electrical engineering research expenditures FY 1999, NSF; numbers after decimals designate females.

Table 8. Tenured/Tenure-Track Faculty at the "Top 50" Mechanical Engineering Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | | Total |
|-------------------------------|---------------|---------------|---------------|----------|--------------|-------------|--------------|--------------|----------|-------------|--------------|---------------|---------------|--------------|---------------|----------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | |
| Johns Hopkins U | 9.01 | 2.01 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3.01 |
| University of Rochester | 14 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| MA Institute of Tech | 30.01 | 6 | 4.01 | 1 | - | - | 1 | - | - | - | - | - | 6 | 6 | - | 12 |
| Georgia Institute of Tech | 28 | 16.01 | 7.01 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 7 | 6.01 | 1.01 | 14.02 |
| U TX at Austin | 28.01 | 10.02 | 6.02 | - | 2.01 | - | 1 | 2 | 2 | - | - | - | 3 | - | 2 | 5 |
| University of Michigan | 12 | 10.03 | 7.03 | - | - | - | - | - | - | - | - | - | 10 | 4.01 | 5 | 19.01 |
| Pennsylvania State U | 22.01 | 4.01 | 5.02 | 1 | - | - | 1 | - | - | - | - | - | 8 | 2 | - | 10 |
| Stanford University | 16 | 7.01 | 4 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| U of Illinois Urbana-Cham | 18 | 11 | 9.01 | - | - | - | - | - | - | - | - | - | 1 | - | - | 0 |
| U CA Los Angeles | 20.02 | 1 | - | - | - | - | - | - | - | - | - | - | 8 | 2 | - | 10 |
| Texas A&M University | 20.01 | 8 | 5 | - | - | - | 1 | - | - | - | - | - | 8 | 2 | 5 | 15 |
| U MD at College Park | 14 | 6.01 | 11.01 | - | - | - | - | - | - | - | - | - | 3 | 4 | 2 | 9 |
| University of Arizona | 12 | 2 | 3 | - | - | - | - | 1 | - | - | - | - | 2 | 3 | - | 5 |
| University of Dayton | 6.01 | 2 | 3.01 | - | - | - | - | - | - | - | - | - | 3 | - | - | 3 |
| VA Polytech Inst & St U | 17.01 | 9.01 | 5.01 | 1 | - | - | 1 | - | - | - | - | - | 2 | 2 | 2 | 4 |
| SUNY at Buffalo | 11.01 | 4 | 1 | - | - | - | - | - | - | - | - | - | 2.01 | 5.01 | 2 | 9.02 |
| Purdue University | 25.01 | 15.01 | 5 | - | - | - | - | - | - | - | - | - | 1 | 2.01 | 2 | 5.01 |
| Florida State University | 7 | - | 1 | 1 | 1.01 | 2 | - | 1 | - | - | - | - | 4 | 2 | - | 6 |
| NC State University | 7 | - | 2.02 | 1 | - | 1 | - | - | - | - | - | - | 2 | 1 | 2.01 | 5.01 |
| Ohio State University | 20 | 6 | 3 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 12.01 | 1 | 1 | - | 13.01 |
| Arizona State University | 9.01 | 4.01 | 4 | - | - | - | - | 1 | 1 | 1 | 7.01 | 3 | - | - | - | 10.01 |
| West Virginia University | 16 | 2 | 1 | - | - | - | 2 | - | - | - | 2 | 1 | - | - | - | 3 |
| U of Iowa | 6 | 2 | 1 | - | - | - | - | - | - | - | 4 | 3 | - | - | - | 7 |
| University of Minnesota | 20.01 | 7.02 | 2.01 | - | - | - | - | - | - | - | 6 | 3 | 2 | 2 | 1 | 11 |
| Florida International U | 3 | 3 | 3 | 1 | 1 | 1 | - | 1.01 | 1.01 | 1.01 | 2 | 2 | 3 | 3 | 3 | 12 |
| Rutgers the State U NJ | 8 | 3 | 2.01 | - | - | - | 1 | 1 | 2 | 2 | 6 | 3 | 3 | 3 | 3 | 12 |
| U of Alabama Huntsville | 9 | 5 | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 2 |
| University of Delaware | 5 | 6.01 | 1 | - | - | - | - | - | - | - | 2 | 5 | 1 | 1 | 8 | |
| University of Virginia | 10 | 12.01 | 2 | - | - | - | - | - | - | - | 2 | 5 | 1 | 1 | 7 | |
| Michigan Tech University | 11 | 11.01 | 8.02 | - | - | - | - | - | - | - | 5 | 9 | 3 | 3 | 17 | |
| U CA Davis | 20.01 | 1 | 1 | 2 | 2 | 2 | - | - | - | - | 2 | 1 | 1 | 4 | 4 | |
| U CA San Diego | 24.04 | 4 | 4.01 | - | - | - | 1 | - | - | - | 3.01 | 1.01 | - | - | - | 4.02 |
| Colorado State University | 9 | 7.02 | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 2 |
| Case Western Reserve U | 8 | 1.01 | 1 | - | - | - | - | - | - | - | 3 | 1 | 1 | 1 | 5 | |
| U MA Amherst | 13 | 4 | 5.02 | - | - | - | - | - | - | - | 1 | 4 | 1 | 1 | 6 | |
| Carnegie Mellon U | 9 | 3 | 2 | - | - | - | - | - | - | - | 1 | 1 | 2.01 | - | - | 4.01 |
| U CA Irvine | 14 | 2.01 | 3 | - | - | - | 1.01 | - | - | - | 1 | 1 | - | - | - | 1 |
| Duke University | 9 | 7.01 | 2 | - | - | - | - | - | - | - | 2 | - | - | - | - | 2 |
| Clemson University | 11 | 4 | 7.01 | - | - | - | - | - | - | - | 1 | 1 | - | - | - | 1.01 |
| University of IL Chicago | 11 | 2 | 6 | - | - | - | - | - | - | - | 1 | 1 | - | - | - | 2 |
| Louisiana State U System | 5 | 5 | 2 | - | - | - | - | - | - | - | 3 | 2 | 3 | 8 | - | 8 |
| SUNY at Stony Brook | 2 | 1 | 2 | - | 1.01 | 2.01 | - | - | - | - | 2 | 5 | 3.01 | 3.01 | 10.01 | 17.02 |
| U of Missouri Rolla | 5 | 4 | 4 | - | - | - | 1 | - | - | - | 6 | 2 | 1 | 1 | 9 | |
| Lehigh University | 22 | 3 | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | 3 |
| California Inst of Tech | 7.01 | 1 | 3 | - | - | - | - | - | - | - | 2 | 1 | - | - | - | 0 |
| Woods Hole Ocean Inst | 9 | 9 | 2.01 | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 |
| Northwestern University | 7 | 4.01 | 1 | - | - | - | 1 | - | - | - | 2 | 2.01 | 3.01 | 3.01 | 7.02 | |
| University of Houston | 9 | 3 | - | - | - | - | - | - | - | - | 3 | 3 | - | - | - | 6 |
| University of Cincinnati | 4 | 4 | 1 | - | - | - | - | - | - | - | 2.01 | 3 | 1 | - | - | 6.01 |
| U CA Santa Barbara | 14.01 | 4 | 4.03 | - | - | - | 1 | - | - | - | 3 | 1 | - | - | - | 4 |
| Mechanical Enggr Total | 645.20 | 249.24 | 156.27 | 7 | 13.02 | 8.01 | 28.03 | 12.01 | 7 | 8.01 | 27.02 | 156.05 | 102.07 | 58.07 | 316.19 | 1421.95 |
| Percent within race | 61% | 24% | 15% | 25% | 46% | 29% | 100% | 44% | 26% | 30% | 100% | 49% | 32% | 18% | 100% | 0% |
| Percent of grand total | 45.4% | 17.5% | 11.0% | 0.5% | 0.9% | 0.6% | 2.0% | 0.8% | 0.5% | 0.6% | 1.9% | 11.0% | 7.2% | 4.1% | 22.2% | 0% |
| Females in column | 3.1% | 9.6% | 17.3% | 0.0% | 15.4% | 12.5% | 10.7% | 8.3% | 0.0% | 12.5% | 7.4% | 3.2% | 6.9% | 12.1% | 6.0% | 0% |

*According to mechanical engineering research expenditures FY1999, NSF; numbers after decimals designate females.

Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djin/diversity/top50.html>

Table 9. Tenured/Tenure-Track Faculty at the "Top 50" Economics Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | | Total | |
|-------------------------------|----------------|----------------|----------------|----------------|-------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|-------------|-----------|-------------|------------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | | Tot |
| Harvard University | 34,001 | 3 | 9,001 | 1,001 | - | - | 1 | - | - | - | - | - | - | - | - | 0 | 49,004 |
| Pennsylvania State U | 12 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 27,005 |
| U WI-Madison | 18,001 | 3 | 9,002 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 33,003 |
| University of Georgia | 8 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 16 |
| Georgia State University | 7,001 | 8,004 | 8,003 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | - | - | - | 0 | 30,008 |
| University of Michigan | 25 | 3,001 | 7,001 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | 0 | 44,004 |
| Texas A&M University | 13 | 3 | 5,001 | - | - | - | 1,001 | - | - | - | - | - | - | - | - | 0 | 28,002 |
| U of Ill Urbana-Cham | 18,001 | 5 | 5,001 | 1,001 | - | - | - | - | - | - | - | - | - | - | - | 0 | 36,004 |
| Michigan State Univ | 26,003 | 5,001 | 4,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 38,007 |
| University of Minnesota | 14,001 | 2 | 5,002 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 23,003 |
| University of Florida | 13,001 | 3 | 3,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 21,002 |
| U of Missouri Columbia | 3 | 5 | 2,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 16,001 |
| U MD at College Park | 16,001 | 10,003 | 5 | 4,001 | - | - | - | - | - | - | - | - | - | - | - | 0 | 40,006 |
| Washington State U | 7 | 1 | 1,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 14,002 |
| Purdue University | 41,002 | 12,003 | 8,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 62,006 |
| Iowa State University | 34,004 | 8 | 7,002 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 54,006 |
| U CA Berkeley | 37,007 | 2 | 3 | 1,001 | 1,001 | - | - | - | - | - | - | - | - | - | - | 0 | 48,008 |
| University of Arizona | 12 | 7,001 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 24,002 |
| Oklahoma State Univ | 22,002 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 26,003 |
| Louisiana St U System | 7 | 2 | 3,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 12,001 |
| Cornell University | 43,004 | 11,002 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 70,009 |
| U of Nebraska, Lincoln | 8 | 5,002 | 2,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 16,003 |
| Ohio State University | 19,002 | 6,001 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 39,003 |
| Princeton University | 31,002 | 2 | 12,001 | 1,001 | - | - | - | - | - | - | - | - | - | - | - | 0 | 51,005 |
| Univ of Memphis, The | 8,002 | 1 | - | 2,001 | - | - | - | - | - | - | - | - | - | - | - | 0 | 15,003 |
| U of Tennessee System | 5 | 2,001 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 14,001 |
| NC State University | 32,001 | 9,001 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 50,002 |
| U of Pennsylvania** | 20 | 1 | 11,002 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 40,002 |
| MA Institute of Tech | 23,001 | 1,001 | 9,001 | 1 | 1 | 3 | - | - | - | - | - | - | - | - | - | 0 | 36,003 |
| Univ of Connecticut | 10,003 | 10,001 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 26,004 |
| Arizona State Univ | 14 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 25,001 |
| Montana St U Bozeman | 12,001 | 6,002 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 20,003 |
| Indiana University | 10 | 4,001 | 3 | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | 0 | 22,001 |
| Carnegie Mellon U | 8,001 | 3 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 18,001 |
| University of Kansas | 3 | 4 | 2,001 | 1,001 | 1,001 | - | - | - | - | - | - | - | - | - | - | 0 | 16,003 |
| University of Oklahoma | 6 | 1 | 5,003 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 15,003 |
| Kansas State University | 6 | 3 | 1,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 14,001 |
| Georgia Inst of Tech | 2,001 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 10,002 |
| US Naval Postgrad Schl | 5 | 4,001 | 2,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 11,002 |
| Texas Tech University | 3,001 | 6,001 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 12,002 |
| Rutgers, State U NJ** | 14,001 | 6,002 | 8,002 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 33,005 |
| U of South Carolina | 10 | 5,002 | 3,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 18,003 |
| Duke University | 14,001 | 2 | 12,002 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 28,003 |
| Columbia U Teachr Col** | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 4 |
| Brown University | 14 | 1 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 27,001 |
| New York University | 14 | 3 | 4,001 | 2 | 1,001 | 2 | - | - | - | - | - | - | - | - | - | 0 | 33,002 |
| U CA Los Angeles | 25,003 | 3,003 | 11,002 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 43,008 |
| Case Western Reserve U | 3 | 4,002 | 5,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 12,003 |
| Clemson University | 9 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 15 |
| VA Polytech Inst & St U | 7,001 | 5,002 | 2,001 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 15,004 |
| Economics Total | 747,050 | 206,038 | 229,040 | 170,003 | 5 | 6,002 | 6,001 | 15,003 | 38,007 | 47,003 | 34,002 | 66,015 | 147,020 | 1 | 0 | 1 | 1,389,160 |
| Percent within race | 63% | 17% | 19% | 48% | 24% | 29% | 16% | 39% | 100% | 32% | 23% | 45% | 100% | 0% | 0% | 0% | 100% |
| Percent of grand total | 53.8% | 14.8% | 16.5% | 0.7% | 0.4% | 0.4% | 1.2% | 0.4% | 2.7% | 3.4% | 2.4% | 4.8% | 10.6% | 0.1% | 0% | 0.1% | 100% |
| Females in column | 6.7% | 18.4% | 17.5% | 30.0% | 0% | 33.3% | 17.6% | 16.7% | 20.0% | 6.4% | 5.9% | 22.7% | 13.6% | 0% | 0% | 0% | 11.5% |

*According to economics research expenditures FY1999, NSF; numbers after decimals designate females. **No response; data are from other sources.

Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djnr/diversity/top50.html>

Table 10. Tenured/Tenure-Track Faculty at the "Top 50" Political Science Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | | Total |
|--------------------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | |
| Harvard University | 29,006 | 4,001 | 10,003 | - | - | - | 1 | - | - | 1 | 1 | 3,002 | 1 | - | - | 5,002 |
| U CA Berkeley | 29,004 | 12,003 | 1 | - | - | 0 | - | - | - | - | 2 | 2,001 | 1 | - | - | 5,001 |
| Princeton University** | 19,002 | 3,001 | 17,008 | - | - | 0 | - | - | - | - | 1 | - | - | - | - | 1 |
| Indiana University | 15,003 | 7,002 | 3,001 | 2,001 | - | 2,001 | - | - | - | - | - | - | - | - | - | 0 |
| Rutgers the State U NJ | 18,004 | 8,004 | 4,001 | - | - | 1,001 | - | - | - | 1,001 | - | - | - | - | - | 1,001 |
| U of Pennsylvania | 13,003 | 4,001 | 5,003 | - | - | 1,001 | - | - | - | - | - | - | - | - | - | 1,001 |
| University of Michigan | 21,004 | 7,004 | 10,003 | 1 | 1 | 2 | - | - | - | - | 1,001 | - | - | - | - | 2,002 |
| U MD at College Park | 21 | 8,002 | 4,003 | 2 | 3,001 | 5,001 | - | - | - | - | 1 | - | - | - | - | 2,001 |
| George Mason Univ | 7 | 9,003 | 8,004 | 3,002 | 3,002 | 3,002 | - | - | - | - | 2 | - | - | - | - | 2 |
| U of Washington | 13,002 | 10,004 | 6,001 | 1,001 | 1,001 | 2,002 | - | - | - | - | - | - | - | - | - | 0 |
| Vanderbilt University | 10,001 | 1 | 4,002 | - | - | 1,001 | - | - | - | - | - | - | - | - | - | 0 |
| Northwestern Univ | 13,003 | 8,002 | 8,004 | 1 | 1 | 2 | - | - | - | - | 1 | 1 | 1 | 1 | 2 | 2 |
| Carnegie Mellon U | 1 | - | 2 | - | - | 1,001 | - | - | - | - | - | - | - | - | - | 0 |
| U of South Carolina | 18,004 | 8,001 | 7,003 | 1 | - | 1,001 | - | - | - | - | - | - | - | - | - | 1,001 |
| Duke University | 14,002 | 4,001 | 6 | 1,001 | - | 1,001 | - | - | - | - | - | - | - | - | - | 2 |
| Texas A&M Univ** | 20,002 | 3,001 | 9,004 | 2 | - | 2 | - | - | - | 1,001 | 1,001 | - | - | - | - | 1,001 |
| University of Chicago | 13,003 | 9 | 5,001 | 1 | 1,001 | 3,002 | 1 | 1 | 1 | 1 | 1 | 1,001 | - | - | - | 1,001 |
| Georgetown University | 18,002 | 12,001 | 6,001 | - | - | 1,001 | - | - | - | - | - | - | - | - | - | 2 |
| Tufts University | 3 | 6,002 | 4,002 | 2,002 | 1 | 3,002 | 1,001 | - | - | - | - | - | - | - | - | 1,001 |
| U CA San Diego | 19,002 | 6,001 | 4 | 1,001 | - | 1,001 | 1 | - | - | - | - | - | - | - | - | 1,001 |
| MA Institute of Tech | 10,001 | 7 | 4,001 | 2 | 1,001 | 1,001 | - | - | - | - | 1,001 | 1 | 1,001 | 1 | 3,002 | 3,002 |
| Michigan State Univ | 15,003 | 8 | 5,001 | 1 | 2 | 2,001 | 1 | - | - | - | - | - | - | - | - | 0 |
| University of Georgia | 13,001 | 7,002 | 32,004 | - | - | 2,001 | - | - | - | 1,001 | 1,001 | - | - | - | - | 1,001 |
| Florida State Univ | 8 | 8,002 | 5,002 | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - | 1 |
| New York University | 16,001 | 6,001 | 4,002 | 1 | 1 | 1 | - | - | - | - | 1 | 2 | 1 | 1 | 3 | 3 |
| U CA Irvine | 16,004 | 7,003 | 2 | 1,001 | - | 1,001 | - | - | - | 1,001 | 1,001 | 2,001 | 1 | 1 | 2,001 | 3,002 |
| Clemson University | 4 | - | 2,002 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 1 |
| U of Iowa | 11 | 5,001 | 5,002 | 3,002 | - | 3,002 | - | - | - | 1,001 | 1,001 | 1 | 1 | 1 | 2 | 2 |
| U of Missouri St Louis | 7,002 | 2 | 4,001 | - | - | 3,002 | - | - | - | - | - | - | - | - | - | 0 |
| U CA Davis | 8 | 6,002 | 3,001 | - | - | 0 | - | - | - | - | - | 1,001 | - | - | - | 1,001 |
| George Washington U | 16,002 | 14,004 | 6,002 | - | - | 0 | - | - | - | - | 2,001 | - | - | - | - | 2,001 |
| Univ of Minnesota | 11,002 | 6,003 | 10,003 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 0 |
| VA Polytech Inst & St U | 7,001 | 4,001 | 3,001 | - | - | 0 | - | - | - | - | - | - | - | - | - | 0 |
| Ohio State University | 13,002 | 6,002 | 10,004 | 1 | 1 | 2 | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Pennsylvania State U | 7 | 12,004 | - | - | - | 0 | - | - | - | - | - | 1,001 | - | - | - | 1,001 |
| SUNY at Albany | 11,001 | 8,002 | 1,001 | - | - | 0 | - | - | - | 1 | 1 | - | - | - | - | 1 |
| Univ of New Mexico | 4,001 | 6,002 | 2 | - | - | 0 | 1 | 1,001 | - | - | - | - | - | - | - | 0 |
| Univ of Oklahoma | 7 | 7,001 | 11,006 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 1 |
| U of Missouri Columbia | 6,001 | 6,001 | 8,005 | 2 | 1,001 | 3,001 | - | - | - | - | - | - | - | - | - | 1 |
| U of Southern California | 5 | 6,005 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | 0 |
| U WI-Madison | 24,004 | 3,002 | 10,001 | - | - | 1,001 | 1 | - | - | - | - | 2,001 | 2,001 | 2,001 | 2,001 | 2,001 |
| New School University | 4,001 | 2,001 | 1,001 | 1 | - | 1 | - | - | - | - | - | 2,002 | 2,002 | 2,001 | 2,001 | 2,002 |
| Arizona State Univ | 11,002 | 7,003 | 1,001 | - | - | 1,001 | - | - | - | - | - | 1,001 | 1,001 | 1,001 | 2,001 | 2,001 |
| Georgia State Univ | 1 | 5,001 | 10,001 | - | - | 1,001 | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Western Michigan U | 5 | 6,001 | 5,002 | - | - | 1,001 | - | - | - | - | - | - | - | - | - | 0 |
| US Naval Postgrad Schl | 7,001 | 6,001 | 4 | - | - | 0 | - | - | - | - | - | - | - | - | - | 0 |
| U of IL Urbana-Cham | 7,001 | 7,002 | 5,001 | 1,001 | 1,001 | 3,002 | - | - | - | 1,001 | 1,001 | 1,001 | 1,001 | 1,001 | 3,002 | 3,002 |
| U of Tennessee System | 7,001 | 4,001 | 3,002 | - | - | 0 | - | - | - | - | - | - | - | - | - | 0 |
| U of Nebraska at Lincoln | 6 | 7,002 | 3,001 | 1 | - | 2,001 | 1 | - | - | - | - | - | - | - | - | 0 |
| U MA Boston | 6,002 | 8,002 | 14,004 | 1 | 1 | 2 | - | - | - | - | 1 | - | - | - | - | 1 |
| Political Science Total | 587,081 | 320,085 | 259,090 | 22,005 | 28,015 | 16,006 | 66,026 | 6 | 8,002 | 8,004 | 22,006 | 16,002 | 20,006 | 28,014 | 64,022 | 1320,310 |
| Percent within race | 50% | 27% | 22% | 33% | 42% | 24% | 100% | 27% | 36% | 36% | 100% | 25% | 31% | 44% | 100% | 0% |
| Percent of grand total | 44.5% | 24.2% | 19.6% | 1.7% | 2.1% | 1.2% | 5.0% | 0.5% | 0.6% | 0.6% | 1.7% | 1.2% | 1.5% | 2.1% | 4.8% | 0.2% |
| Females in column | 13.8% | 26.6% | 34.7% | 22.0% | 53.6% | 37.5% | 39.4% | 0.0% | 25.0% | 50.0% | 27.3% | 12.5% | 30.0% | 50.0% | 34.4% | 0% |

*According to political science research expenditures FY1999, NSF; numbers after decimals designate females. **Declined to participate; data are from other sources.

Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djn/diversity/top50.html>

Table 11. Tenured/Tenure-Track Faculty at the "Top 50" Sociology Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | Total | | |
|-------------------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | | Asst | Tot |
| Brandeis University | 5.001 | 2.002 | 2 | 1.001 | 1.001 | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 10.004 |
| University of Michigan | 15.002 | 8.005 | 4.003 | 2 | 2 | 4 | - | 1.001 | - | 1.001 | - | - | - | - | - | 0 | 37.014 |
| Pennsylvania State U | 17.001 | 4.002 | 6.004 | 1 | 1 | 1 | - | 1 | - | 1 | - | - | - | - | - | 0 | 29.007 |
| Iowa State University | 18.006 | 7.003 | 9.006 | 1.001 | 1.001 | 2.002 | - | - | 1 | - | - | - | - | - | - | 0 | 37.017 |
| U of NC Chapel Hill | 17.005 | 1 | 4 | 1.001 | 1.001 | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 24.006 |
| U CA Berkeley | 19.007 | 2.001 | 2.001 | 1 | 1 | 2 | 1 | 1.001 | - | 2.001 | - | - | - | - | - | 0 | 28.011 |
| University of Arizona | 8.002 | 4.003 | 3.001 | 1 | 1 | 1.001 | 1 | - | - | - | - | - | - | - | - | 0 | 17.006 |
| U WI-Madison | 18.006 | 6 | 13.005 | 1 | 1 | 2 | - | - | - | - | - | - | - | - | - | 0 | 43.013 |
| U of Pennsylvania | 17.006 | 1.001 | 5.002 | 2 | 1.001 | 3.001 | - | - | - | - | - | - | - | - | - | 0 | 27.011 |
| U CA San Diego | 12.002 | 8.003 | 5.001 | 1.001 | 1 | 2.001 | - | - | 1 | - | - | - | - | - | - | 0 | 28.007 |
| U CA Los Angeles | 25.005 | 5.001 | 6.005 | 2 | 2 | 2 | 2 | 2.001 | 1 | 5.001 | - | - | - | - | - | 0 | 46.013 |
| U TX at Austin | 18.004 | 4.002 | 6.003 | 1 | 1 | 2 | 1 | - | - | 1 | - | - | - | - | - | 0 | 32.010 |
| Indiana University | 15.003 | 4.003 | 5.003 | 1.001 | 1.001 | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 20.007 |
| Florida International U | 10.002 | 10.005 | 1.001 | 1 | 1 | 1 | 1.001 | 2 | 1.001 | 4.002 | - | - | - | - | - | 0 | 26.010 |
| Indiana State University | 2 | 2.001 | 2.001 | - | - | 0 | - | - | 1.001 | 1.001 | - | - | - | - | - | 0 | 8.003 |
| Columbia U in City of NY | 11.001 | 3.002 | 3.001 | - | - | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 19.005 |
| Johns Hopkins U | 5 | 1.001 | - | 1.001 | 1.001 | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 8.003 |
| University of Colorado | 6.001 | 4.001 | - | - | - | 0 | - | - | - | - | - | - | - | - | - | 0 | 12.002 |
| Georgia State University | 6.001 | 3.002 | 8.004 | - | - | 2.001 | - | - | - | 2.001 | - | - | - | - | - | 0 | 21.009 |
| Rutgers the State U NJ | 12.004 | 15.009 | 6.004 | 2.001 | 1.001 | 3.002 | - | - | - | - | - | - | - | - | - | 0 | 36.019 |
| U of IL Urbana-Cham | 3 | 2.001 | 5.004 | 1.001 | 2.001 | 3.002 | - | - | 1 | 2 | - | - | - | - | - | 0 | 19.007 |
| SUNY at Albany | 10.002 | 11.004 | 2 | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - | 0 | 25.006 |
| Texas Tech University | 3 | 3.001 | 2.001 | - | - | 0 | - | - | - | - | - | - | - | - | - | 0 | 9.002 |
| Washington State U*** | 9.001 | 5.001 | 6.002 | 2.004 | 2 | 2 | - | - | - | - | - | - | - | - | - | 0 | 20.004 |
| University of Akron | 6.001 | 4.003 | 3.001 | 13.005 | 2 | 2 | - | - | - | - | - | - | - | - | - | 0 | 17.006 |
| University of Delaware | 15.007 | 7.003 | 3.001 | 25.011 | 1 | 1 | 1 | - | - | 1 | - | - | - | - | - | 0 | 27.012 |
| Temple University | 8.003 | 3.002 | 3.003 | 14.008 | - | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 16.009 |
| U of Iowa | 4.002 | 5.003 | 4.003 | 13.008 | - | 0 | - | - | - | - | - | - | - | - | - | 0 | 14.008 |
| Florida State University | 11.003 | 4.002 | 7.003 | 22.008 | - | 0 | - | - | - | - | - | - | - | - | - | 0 | 22.008 |
| U MD at College Park | 14.005 | 6.002 | 4.002 | 24.009 | - | 1 | 1 | 1.001 | 1 | 1 | 1.001 | - | - | - | - | 0 | 29.011 |
| U of South Carolina | 9.002 | 1.001 | 1 | 11.003 | 1 | 1 | - | - | - | - | - | - | - | - | - | 0 | 13.003 |
| University of IL Chicago | 5 | 5.002 | 6.005 | 16.007 | 1 | 1.001 | - | - | 1.001 | 1.001 | - | - | - | - | - | 0 | 22.009 |
| Georgetown University | 3.001 | 3.001 | 1.001 | 7.003 | 1.001 | 1.001 | - | - | 1 | 1 | - | - | - | - | - | 0 | 9.004 |
| U of New Hampshire | 5.001 | 3.002 | 5.003 | 13.006 | - | - | - | - | - | - | - | - | - | - | - | 0 | 13.006 |
| US Naval Postgrad Sch | 1 | 1 | - | 2 | - | 0 | - | - | - | - | - | - | - | - | - | 0 | 2 |
| Ohio State University | 12.004 | 10.005 | 7.004 | 29.013 | 1.001 | 1 | - | - | 1 | 1 | - | - | - | - | - | 0 | 33.014 |
| University of Georgia | 7.002 | 4 | 7.003 | 18.005 | - | 2.001 | - | - | - | - | - | - | - | - | - | 0 | 20.006 |
| Purdue University | 11.001 | 14.006 | 4.002 | 29.009 | - | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 32.011 |
| University of Kentucky | 8.001 | 10.005 | 4.001 | 22.007 | 1.001 | 1.001 | - | - | - | - | - | - | - | - | - | 0 | 24.009 |
| U of Nebraska at Lincoln | 7.003 | 1.001 | 3.003 | 11.007 | - | 1 | 1 | 2.002 | 3.002 | - | - | - | - | - | - | 0 | 15.009 |
| University of Minnesota | 10.005 | 4 | 8.003 | 22.008 | - | - | - | - | - | - | - | - | - | - | - | 0 | 24.009 |
| Louisiana State U System | 8.002 | 3 | 2 | 13.002 | 1 | - | - | - | - | - | - | - | - | - | - | 0 | 17.002 |
| U of Southern California | 6.001 | 2 | 2.002 | 10.003 | - | 1.001 | 1 | 2.001 | 1 | 2.001 | - | - | - | - | - | 0 | 15.006 |
| Univ of Memphis | 5.001 | 5.003 | 2.001 | 12.005 | - | - | - | - | - | - | - | - | - | - | - | 0 | 12.005 |
| Michigan State Univ** | 11.003 | 4 | 3.001 | 18.004 | 2.001 | 1 | 3.001 | 2.001 | - | 2.001 | - | - | - | - | - | 0 | 23.006 |
| U of Missouri Columbia | 9.002 | - | 3.002 | 12.004 | - | 1.001 | 1.001 | 2.002 | - | 0 | - | - | - | - | - | 0 | 15.006 |
| University of Miami | 3 | 2.001 | 4.004 | 9.005 | 2 | 1.001 | - | 3.001 | - | 1.001 | 1.001 | - | - | - | - | 0 | 13.007 |
| Cornell University | 6.002 | 4.002 | 4.003 | 14.007 | - | - | - | - | - | - | - | - | - | - | - | 0 | 15.007 |
| University of Chicago** | 11.002 | 1 | 3.001 | 15.003 | - | 1 | - | - | - | - | - | - | - | - | - | 0 | 18.003 |
| Sociology Total | 486.119 | 221.098 | 203.107 | 910.324 | 23.007 | 21.011 | 26.014 | 70.032 | 10 | 13.004 | 12.01 | 35.012 | 15.002 | 19.004 | 17.008 | 51.014 | 1068.382 |
| Percent within race | 53% | 24% | 22% | 100% | 33% | 30% | 37% | 100% | 29% | 37% | 34% | 100% | 29% | 37% | 33% | 100% | 0% |
| Percent of grand total | 45.5% | 20.7% | 19.0% | 85.2% | 2.2% | 2.0% | 2.4% | 6.6% | 0.9% | 1.2% | 1.1% | 3.3% | 1.4% | 1.8% | 1.6% | 4.8% | 0.2% |
| Females in column | 24.5% | 44.3% | 52.7% | 35.6% | 30.4% | 52.4% | 53.8% | 45.7% | 20.0% | 30.8% | 50.0% | 34.3% | 13.3% | 21.1% | 47.1% | 27.5% | 0% |

*According to sociology research expenditures FY1999, NSF; numbers after decimals designate females. **Declined to participate; data are from other sources. ***No response; data are from other sources. Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/dj/n/diversity/top50.html>

Table 12. Tenured/Tenure-Track Faculty at the "Top 50" Psychology Departments* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | | Total | |
|-------------------------------|----------------|----------------|----------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| | Full | Assoc | Asst | Tot | Full | Assoc | Asst | Tot | Full | Assoc | Asst | Tot | Full | Assoc | Asst | | Tot |
| U WI-Madison | 22,009 | 3,002 | 8,001 | 33,012 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 35,013 |
| Univ of Oklahoma | 6 | 3,001 | 7,005 | 16,006 | - | - | 1,001 | 2,001 | - | - | - | 1,001 | - | - | - | 0 | 19,008 |
| Penn State Univ*** | 20,007 | 12,004 | 8,004 | 40,015 | - | - | 2,002 | 2,002 | - | - | - | 0 | - | - | - | 0 | 42,017 |
| U of Washington | 20,006 | 8,004 | 9,005 | 37,015 | - | 1 | - | 3,001 | - | 3,001 | - | 3,001 | - | - | - | 0 | 44,017 |
| U CA Los Angeles | 37,011 | 6,002 | 9,002 | 52,015 | 3,001 | - | - | 3,001 | 2 | - | 1 | 3 | 2,002 | 1,001 | 2,001 | 5,004 | 63,020 |
| Indiana University | 23,004 | 8,001 | 7,004 | 38,009 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 38,009 |
| Univ of Michigan | 45,018 | 11,008 | 9,003 | 65,029 | 3,001 | 1 | 6,005 | 10,006 | 2 | 2,001 | 2,002 | 6,003 | - | 2,001 | 7,004 | 9,005 | 91,044 |
| Rutgers the STU NJ | 6,001 | 3,001 | 5,002 | 14,004 | - | - | - | 0 | - | - | - | 0 | 1,001 | - | - | 1,001 | 15,005 |
| Georgia State Univ | 8,003 | 9,005 | 8,005 | 25,013 | - | 3 | - | 1 | 1 | - | 1 | 2 | - | - | - | 0 | 31,013 |
| Univ of Colorado | 26,006 | 9,002 | 9,001 | 44,009 | - | - | - | 0 | 1,001 | 1,001 | - | 1,001 | - | - | - | 0 | 48,012 |
| U of IL Urbana-Cham | 32,007 | 10,005 | 6,001 | 48,013 | - | - | 1,001 | 1,001 | - | - | 1 | 1 | - | - | - | 0 | 52,016 |
| Univ of Memphis | 18 | 3 | 5,002 | 26,002 | - | 1 | - | 1 | - | - | - | 0 | - | 1 | - | 0 | 28,002 |
| Univ of Minnesota | 20,003 | 7,003 | 7,002 | 34,008 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 37,008 |
| U CA Berkeley | 26,007 | 4,002 | 4,001 | 34,011 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 0 | 39,011 |
| Univ of Georgia | 19,004 | 9,002 | 9,004 | 37,011 | - | 2,002 | - | 1,001 | 1,001 | - | - | 1,001 | - | - | - | 0 | 41,013 |
| U of South Florida | 21,002 | 9,006 | 4,002 | 34,011 | - | 1 | - | 0 | - | - | - | 0 | - | - | - | 0 | 36,010 |
| Cornell University | 18,006 | 2 | 4 | 24,006 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 24,006 |
| Carnegie Mellon U | 14,004 | 3,002 | 5,004 | 22,001 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 22,010 |
| Univ of Rochester | 10,002 | 2 | 2,002 | 14,004 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 14,004 |
| Univ of Miami ** | 14,004 | 6,004 | 3 | 23,008 | - | - | - | 0 | 1,001 | - | 4,001 | 5,002 | - | - | - | 0 | 28,010 |
| Arizona State Univ | 28,005 | 8,003 | 5,004 | 41,012 | - | - | - | 0 | 3,001 | 3,002 | - | 6,003 | - | 1 | 1,001 | 2,001 | 49,016 |
| U of Connecticut** | 25,005 | 12,005 | 7,004 | 44,014 | - | - | 1,001 | 1,001 | - | - | 1 | 1 | - | - | - | 0 | 47,015 |
| SUNY at Buffalo | 10,003 | 9,003 | 6,003 | 25,009 | - | - | - | 0 | - | - | 1,001 | 1,001 | - | - | - | 0 | 26,010 |
| Princeton Univ | 19,006 | - | 2,001 | 21,007 | - | - | 1,001 | 1,001 | - | - | - | 0 | - | - | - | 0 | 23,008 |
| OR Health Sci U*** | 2,001 | - | - | 2,001 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 2,001 |
| U AL Birmingham | 13,004 | 8,002 | 4,002 | 25,008 | - | - | - | 0 | - | - | 1,001 | 1,001 | - | - | - | 0 | 27,010 |
| U CA San Diego | 16,004 | 3,001 | 6,002 | 25,007 | - | - | - | 0 | - | - | 1,001 | 1,001 | - | - | - | 0 | 27,008 |
| New York Univ | 25,009 | 9,002 | 1 | 35,011 | - | 2,001 | - | 1,001 | - | 1,001 | - | 1,001 | - | - | - | 0 | 39,013 |
| Florida State Univ | 19,003 | 8,002 | 7,003 | 34,008 | - | - | - | 0 | 2,001 | - | - | 2,001 | - | - | - | 0 | 37,009 |
| Harvard University | 14,004 | 3,002 | 4,002 | 21,008 | - | - | - | 0 | - | - | - | 0 | 2,001 | 1,001 | - | 0 | 24,010 |
| U of New Mexico | 13,004 | 4,002 | 3,001 | 20,007 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 23,008 |
| Univ of Florida | 12,005 | 6,001 | 3,001 | 21,007 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 21,007 |
| Univ of Pittsburgh | 15,004 | 10,001 | 4,002 | 29,007 | 1,001 | - | - | 1,001 | - | - | - | 0 | 1,001 | - | - | 0 | 31,009 |
| San Diego St Univ | 24,008 | 9,006 | 9,005 | 42,019 | - | - | - | 0 | - | 2,001 | 1,001 | 3,002 | - | - | - | 0 | 46,022 |
| Univ of IL Chicago | 12,003 | 10,003 | 5,001 | 27,007 | - | 1 | 2,001 | 3,002 | - | 2,001 | - | 2,001 | - | - | - | 0 | 33,010 |
| U of Rhode Island | 19,006 | 3,001 | 2,002 | 24,009 | - | 1,001 | 2,001 | 3,002 | - | - | - | 0 | - | - | - | 0 | 28,012 |
| Duke University | 12,002 | 2,001 | 4,002 | 18,005 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 18,005 |
| Temple Univ*** | 21,006 | 4,001 | 7,001 | 32,008 | - | 1 | - | 1 | - | - | - | 0 | - | - | - | 0 | 33,008 |
| U of MO Columbia | 11,009 | 6,002 | 11,006 | 28,017 | - | - | - | 0 | - | 1,001 | 2,001 | 3,002 | - | - | - | 0 | 31,019 |
| Stanford University | 16,004 | 4,001 | 4,002 | 24,007 | 2 | - | - | 2 | - | - | - | 0 | - | - | - | 0 | 27,008 |
| U MA Amherst | 36,011 | 5,005 | 3,002 | 44,018 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 45,018 |
| U of So California | 18,003 | 9,003 | 4,001 | 31,007 | - | 1 | - | 0 | - | 1 | 1 | 2 | - | - | - | 0 | 34,007 |
| U of South Carolina | 17,003 | 4,002 | 4,001 | 25,006 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 27,008 |
| Ohio State Univ | 31,008 | 19,005 | 4,002 | 54,015 | - | - | - | 0 | - | 1,001 | 1,001 | 1,001 | 1 | 2,001 | - | 0 | 58,017 |
| Yale University | 13,003 | 1 | 11,003 | 25,006 | - | - | - | 0 | - | - | - | 0 | 1,001 | - | - | 0 | 26,007 |
| U of Pennsylvania | 17,004 | 3,001 | 5,003 | 25,008 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 26,008 |
| Georgia Inst of Tech | 11,003 | 4,001 | 4 | 19,004 | - | - | 1,001 | 1,001 | - | - | - | 0 | - | - | - | 0 | 20,005 |
| Johns Hopkins U | 5,001 | - | 4,002 | 9,003 | - | - | - | 0 | - | - | - | 0 | - | - | - | 0 | 9,003 |
| SUNY Binghamton | 14,003 | 3,003 | 7,003 | 24,009 | - | - | - | 0 | - | 1,001 | - | 1,001 | - | - | - | 0 | 26,011 |
| Colorado State U | 17,001 | 5,005 | 5,002 | 27,008 | - | - | - | 0 | 1 | 1,001 | 1,001 | 2,001 | - | - | - | 0 | 31,009 |
| Psychology Total | 910,239 | 298,118 | 273,113 | 1,481,470 | 10,003 | 14,004 | 20,015 | 44,022 | 18,005 | 15,009 | 21,012 | 54,026 | 10,006 | 14,005 | 33,017 | 57,028 | 1,641,549 |
| Percent within race | 61% | 20% | 18% | 100% | 23% | 32% | 45% | 100% | 33% | 28% | 39% | 100% | 18% | 25% | 58% | 100% | 100% |
| Percent of grand total | 55.5% | 18.2% | 16.6% | 90.2% | 0.6% | 0.9% | 1.2% | 2.7% | 1.1% | 0.9% | 1.3% | 3.3% | 0.6% | 0.9% | 2.0% | 3.5% | 0.3% |
| Females in column | 26.3% | 39.6% | 41.4% | 31.7% | 30.0% | 28.6% | 75.0% | 50.0% | 27.8% | 60.0% | 57.1% | 48.1% | 60.0% | 35.7% | 51.5% | 49.1% | 60.0% |

* According to psychology research expenditures FY 1999, NSF; numbers after decimals designate females. ** Declined to participate; data are from other sources. *** No response; data are from other sources. Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djnm/diversity/top50.html>

Table 13. Tenured/Tenure-Track Faculty at "Top 50" Departments of Biological Sciences* by Race/Ethnicity, by Gender, and by Rank (FY 2002)

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | Total | |
|----------------------------------|-----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|----------------|----------------|-----------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | | Asst |
| Baylor Col of Medicine | 43.008 | 29.011 | 21.010 | 1 | 1 | 2 | 4 | 5.002 | - | 10.001 | 15.003 | - | - | - | - | 113.032 |
| Washington University | 47.006 | 7.001 | 34.006 | 1 | 1 | 2 | 3 | 4 | - | 4.001 | 8.001 | - | - | - | - | 100.014 |
| U of Pennsylvania | 19.003 | 0 | 8.004 | - | - | - | 0 | 1.001 | - | 2.001 | 2.001 | - | - | - | - | 29.008 |
| Rockefeller Univ | 11.001 | 2 | 2.001 | - | - | - | 0 | - | - | 1 | 2 | - | - | - | - | 17.002 |
| Harvard University | 61.009 | 6 | 11.002 | 1 | 1 | - | 1 | 2.002 | 1.001 | 1 | 4.003 | - | - | - | - | 84.014 |
| U of Washington | 56.009 | 14.008 | 10.003 | 1 | 1 | 2 | 3 | 1.001 | 1 | 3.002 | 5.003 | - | - | - | - | 89.023 |
| U WI-Madison | 69.007 | 17.004 | 19.010 | 2 | 2 | 2 | 4 | 2.001 | - | 2.002 | 2.002 | - | - | - | - | 111.023 |
| Johns Hopkins U | 16.003 | 6.004 | 3.001 | - | - | - | 0 | 2.001 | - | 1.001 | 3.002 | - | - | - | - | 30.010 |
| Texas A&M University | 80.007 | 42.006 | 19.004 | 1 | 1.001 | 5 | 6.001 | 8.004 | 4 | 2.001 | 2.001 | - | - | - | - | 149.019 |
| U CA Berkeley | 93.018 | 28.010 | 16.006 | 3 | 1 | 1 | 5 | 1 | 1 | 1 | 13.004 | - | - | - | - | 158.039 |
| U of NC Chapel Hill | 40.010 | 10.003 | 13.004 | 1.001 | - | - | 0 | - | - | 2 | 3 | - | - | - | - | 67.018 |
| Yale University | 21.004 | 8.002 | 5.002 | - | - | - | 0 | - | - | 1 | 5.001 | - | - | - | - | 39.009 |
| University of Michigan | 19.001 | 8.003 | - | - | - | 1.001 | 1.001 | - | - | 1 | 1 | - | - | - | - | 29.005 |
| Columbia U in City, NY | 40.008 | 11.002 | 5 | 0 | 0 | - | 0 | - | - | 2 | 7.002 | - | - | - | - | 63.012 |
| UTX SW Med Ctr, Dallas | 18.003 | 2.001 | 12.002 | - | - | 2.001 | 5.001 | 3 | 1 | 1 | 5 | - | - | - | - | 42.007 |
| Tufts University | 6.002 | 7.002 | 4.003 | 1.001 | 1.001 | 1 | 1 | 1.001 | 1.001 | - | 1.001 | - | - | - | - | 20.009 |
| U TX MD Anderson Cntr | 4.001 | 5 | 6.002 | 1.001 | 1.001 | 1 | 0 | 2.001 | 1.001 | 1 | 4.002 | - | - | - | - | 21.006 |
| University of Georgia*** | 104.015 | 32.008 | 29.009 | 1 | 1 | - | 0 | 2 | 4 | 4.002 | 10.002 | - | - | - | - | 176.034 |
| U of AL, Birmingham | 20.003 | 11.001 | 5.001 | - | - | - | 0 | - | - | 3 | 3 | - | - | - | - | 39.005 |
| U CA Davis*** | 50 | 24.005 | 17.006 | - | - | - | 0 | 1 | 3 | 2.002 | 1.001 | - | - | - | - | 98.014 |
| Duke University | 18.001 | 10.001 | 6.002 | - | - | - | 0 | 1.001 | 2.002 | 1 | 4.003 | - | - | - | - | 38.007 |
| NC State University*** | 49.010 | 19.002 | 13.002 | 1 | 1 | - | 0 | - | - | 2.001 | 2.001 | - | - | - | - | 87.016 |
| Vanderbilt University | 30.002 | 12.003 | 10.001 | - | - | - | 0 | - | - | - | 1.001 | - | - | - | - | 53.007 |
| Michigan State U | 61.009 | 18.007 | 27.011 | 2 | 2 | 1 | 4 | 6 | 3.002 | 3 | 12.002 | - | - | - | - | 124.029 |
| Pennsylvania State U | 42.006 | 16.002 | 10.003 | - | - | 2 | 0 | 4 | 2 | 7.001 | 13.001 | - | - | - | - | 83.012 |
| U of Minnesota*** | 73.015 | 22.009 | 20.006 | - | - | 1 | 1 | 4.001 | - | 5.002 | 9.003 | - | - | - | - | 125.033 |
| MA Institute of Tech | 29.005 | 10.004 | 8.003 | - | - | - | 0 | 3 | 2 | 1 | 6 | - | - | - | - | 53.012 |
| Northwestern U | 34.003 | 7.001 | 15.006 | - | - | 1.001 | 3.002 | 7 | 1 | 2 | 10 | - | - | - | - | 69.012 |
| University of Florida | 68.009 | 30.010 | 19.003 | 1 | 1 | - | 1 | 2 | 2 | 8.004 | 12.004 | - | - | - | - | 133.026 |
| Louisiana St U System | 85.008 | 40.008 | 26.007 | 1 | 1 | - | 1 | 1 | 1 | 2 | 4 | - | - | - | - | 158.024 |
| University of Arizona*** | 70.013 | 30.007 | 18.008 | 1 | 1 | 1.001 | 1.001 | 1 | 3 | - | 4 | - | - | - | - | 124.029 |
| U Med & Dent of NJ | 24.008 | 6.005 | 9.001 | - | - | - | 0 | 2 | 1 | 2 | 5 | - | - | - | - | 48.017 |
| Cornell University | 98.012 | 28.008 | 27.010 | 2 | - | 1.001 | 1.001 | 1.001 | 3.002 | 4.001 | 8.002 | - | - | - | - | 177.038 |
| Mt Sinai Sch Med | 7.001 | 3 | 5 | - | - | - | 0 | 3 | 4 | 2.001 | 2.001 | - | - | - | - | 22.004 |
| U CA Irvine*** | 47.009 | 8.001 | 12 | 1 | 1 | - | 1 | 3 | 1.001 | 2.001 | 6.002 | - | - | - | - | 79.012 |
| SUNY at Buffalo | 28.003 | 10.002 | 7.004 | 1.001 | - | - | 1.001 | 2 | 1 | 2 | 8.002 | - | - | - | - | 53.011 |
| U CA Los Angeles | 18.002 | 1 | 6.001 | - | - | - | 0 | 2.001 | - | - | 0 | - | - | - | - | 27.004 |
| Ohio State University | 41.003 | 28.005 | 23.007 | - | - | 1.001 | 2.001 | 6.001 | 5.003 | 2 | 13.004 | - | - | - | - | 108.020 |
| Case Western Res U*** | 8 | 2 | - | - | - | - | 0 | - | - | - | 0 | - | - | - | - | 11 |
| Purdue University | 80.008 | 29.004 | 24.009 | 1 | 1 | 1 | 2 | 4 | 1 | 5 | 10 | - | - | - | - | 147.021 |
| SUNY at Stony Brook | 10 | 10.004 | 3 | - | - | - | 0 | - | - | 1 | 1 | - | - | - | - | 24.004 |
| U TX MedBr at Galveston | 11 | 1 | 2 | 1 | 1 | - | 1 | 4 | 1.001 | 2.002 | 7.003 | - | - | - | - | 22.003 |
| New York University | 9.004 | 7.001 | 4.001 | - | - | - | 1 | 1.001 | - | - | 1.001 | - | - | - | - | 21.006 |
| University of Cincinnati | 13.003 | 8.002 | 4.001 | - | - | - | 0 | - | - | - | 0 | - | - | - | - | 26.007 |
| University of Kansas*** | 22.004 | 16.004 | 7.002 | 1 | 1 | 1.001 | 1.001 | 1 | 1 | 1 | 3 | - | - | - | - | 50.011 |
| Emory University | 24.004 | 8.002 | 14.004 | 1 | 1 | 1 | 1 | 3 | 4 | 3.002 | 10.002 | - | - | - | - | 59.012 |
| University of Colorado | 36.006 | 10.004 | 11.002 | 1 | 1 | - | 1 | 4 | 1 | 5.003 | 6.003 | - | - | - | - | 65.015 |
| Rutgers the State U NJ | 32.006 | 24.006 | 13.003 | 1 | 1 | 1.001 | 3.001 | 4 | 4 | - | 8 | - | - | - | - | 80.016 |
| Thomas Jefferson U | 32.011 | 15.003 | 10.003 | - | - | - | 0 | 4.001 | 2.001 | 2 | 8.002 | - | - | - | - | 65.019 |
| SUNY at Albany | 17.002 | 8.001 | 2 | - | - | - | 1 | - | 1.001 | 1 | 2.001 | - | - | - | - | 30.004 |
| Biological Sciences Total | 1933.285 | 705.177 | 594.176 | 15.002 | 11.003 | 12.005 | 37.009 | 29.002 | 10.001 | 30.010 | 69.013 | 111.021 | 64.016 | 118.037 | 293.074 | 3635.734 |
| Percent within race | 60% | 22% | 18% | 41% | 30% | 32% | 100% | 42% | 14% | 43% | 100% | 38% | 22% | 40% | 100% | 100% |
| Percent of grand total | 53.2% | 19.4% | 16.3% | 0.4% | 0.3% | 0.3% | 1.0% | 0.8% | 0.3% | 0.8% | 1.9% | 3.1% | 1.8% | 3.2% | 8.1% | 0.1% |
| Females in column | 14.7% | 25.1% | 29.6% | 6.7% | 27.3% | 41.7% | 24.3% | 6.9% | 10.0% | 33.3% | 18.8% | 18.9% | 25.0% | 31.4% | 25.3% | 0% |

*According to biology research expenditures FY1999, NSF, numbers after decimals designate females. **Declined; data are from other sources. ***All data were supplied by one administrator.
Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2002; <http://cheminfo.chem.ou.edu/faculty/djnl/diversity/top50.html>

Table 14. Tenured/Tenure-Track Faculty at PhD-Granting Astronomy/Astrophysics Departments by Race/Ethnicity, by Gender, and by Rank (FY 2004):

| University | White | | | Black | | | Hispanic | | | Asian | | | Native Am. | | Total | | |
|-------------------------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Assoc | Asst | Full | Asst | | Tot | |
| Cal Inst of Tech | 17.02 | 2.01 | 2.01 | 21.04 | | | | | | | | | | | 3 | 24.04 | |
| Princeton U | 12.02 | 1 | - | 13.02 | | | | | | | | | | | 0 | 13.02 | |
| U Cal - Berkeley | 11.01 | - | 1 | 12.01 | | | | | | 1.01 | 1 | 2.01 | | | 0 | 15.02 | |
| Harvard U | 13.01 | 1 | 2 | 16.01 | | | | | | | | | | | 1 | 17.01 | |
| U Chicago | 25 | 1 | 2 | 28 | | | | | 1.01 | 1 | 1 | 3 | | | 3 | 33.02 | |
| U Cal - Santa Cruz | 18.03 | - | 2 | 20.03 | | | | | | | | | | | 0 | 23.03 | |
| U of Arizona | 18.03 | 3 | 5.01 | 26.04 | | | | | | | 2 | 2 | | | 0 | 29.04 | |
| Cornell U | 22.01 | 1 | - | 23.01 | | | | | | | 1 | 1 | | | 0 | 24.01 | |
| U of Texas-Austin | 18.01 | - | 1 | 19.01 | | | | | | | | 2 | | | 0 | 21.01 | |
| U Hawaii - Manoa | 26.02 | 3.01 | 3 | 32.03 | | | | | | 1 | 1 | 4.01 | | | 1 | 39.04 | |
| U of Col - Boulder | 12.01 | 2.01 | 4 | 18.02 | | | | | | | | | | | 0 | 18.02 | |
| U Ill, Urb-Chmpgr | 5 | 1 | 7 | 13 | | | | | | | | | | | 0 | 14.01 | |
| U Wisc - Madisor | 12.02 | 1 | 2.01 | 15.03 | | | | | | | | | | | 0 | 16.03 | |
| Yale U | 7 | - | 1 | 8 | | | | | | | | 2.02 | | | 0 | 10.02 | |
| UCLA | 12.02 | 1 | 1 | 14.02 | | | | | | | | | | | 0 | 14.02 | |
| Columbia U | 9.02 | 3 | 3.01 | 15.03 | | | | | | | 1 | 1 | | | 0 | 16.03 | |
| U Maryland | 7 | 5.01 | 3 | 15.01 | | | | | | | | | | | 0 | 15.01 | |
| U Mass - Amherst | 6.01 | 1 | 2 | 9.01 | | | | | | 2 | 1 | 4 | | | 0 | 13.01 | |
| Penn State U | 9.01 | 1 | 3 | 13.01 | | | | | | | 1 | 1 | | | 0 | 15.02 | |
| Ohio State U | 14.01 | 4.01 | - | 18.02 | | | | | | | 1.01 | 2.01 | | | 0 | 20.03 | |
| U Minnesota | 10.01 | - | - | 10.01 | | | | | | | | 1.01 | | | 0 | 12.02 | |
| U Michigan | 4 | 2 | 3.01 | 9.01 | | | | | | | | 1 | | | 0 | 10.01 | |
| SUNY Stony Brook | 6 | 1 | - | 7 | | | | | | | | | | | 0 | 8 | |
| Boston U | 11 | 2.01 | 2.01 | 15.02 | | | | | | | | | | | 0 | 15.02 | |
| Indiana U | 6.02 | 1 | 1.01 | 8.03 | | | | | | | | | | | 0 | 8.03 | |
| Iowa State U | 4.01 | 1 | 2 | 7.01 | | | | | | | 1 | 0 | | | 0 | 7.01 | |
| U Florida | 10.01 | 6 | 1.01 | 17.02 | | | | | | | | | | | 0 | 17.02 | |
| NM State U | 3 | 2 | 3.01 | 8.01 | | | | | | | | | | | 0 | 8.01 | |
| Georgia St U | 3 | 5 | - | 8 | | | | | | | | | | | 0 | 8 | |
| Brigham Young U | 3 | 2 | 1 | 6 | | | | | | | | | | | 0 | 6 | |
| Case W Reserve U | 1 | 2.01 | - | 3.01 | | | | | | | | | | | 0 | 3.01 | |
| Clemson U | 10 | 4 | 4.01 | 18.01 | | | | | | | 1 | 1 | | | 3 | 22.01 | |
| Dartmouth Col | 6.01 | 1 | 3.01 | 10.02 | | | | | | | | | | | 0 | 10.02 | |
| U Delaware | 2 | - | 1 | 3 | | | | | 1.01 | | | | | | 0 | 4.01 | |
| U Denver | 4 | 2 | 2 | 8 | | | | | | | | | | | 0 | 8 | |
| FL Inst Tech | 1 | 1 | - | 2 | | | | | | | | | | | 0 | 3 | |
| Johns Hopkins U | 12.01 | 1 | - | 13.01 | | | | | | | | 1 | | | 0 | 13.01 | |
| Michigan State U | 4 | 3.01 | - | 7.01 | | | | | | | | | | | 0 | 8.01 | |
| NM Inst of M & T | 3.01 | 1 | 2.02 | 6.03 | | | | | | | | | | | 0 | 6.03 | |
| Northwestern U | 3 | 2 | 1.01 | 6.01 | | | | | | | | | | | 0 | 7.01 | |
| U of Oklahoma | 5 | - | 1.01 | 6.01 | | | | | | | | | 1.01 | | 1.01 | 7.02 | |
| U of Penn | 1 | 3 | 1.01 | 5.01 | | | | | | | | | | | 0 | 6.01 | |
| U of Pittsburgh | 2 | 2.01 | 2 | 6.01 | | | | | | | | | | | 0 | 6.01 | |
| Rice University | 5.01 | 2 | 4 | 11.01 | | | | | | | | | | | 0 | 13.01 | |
| U of Rochester | 8.01 | 1 | 2.01 | 11.02 | | | | | | | | | | | 0 | 11.02 | |
| Rutgers St U of NJ | 4 | 4 | 3.01 | 11.01 | | | | | | | | | | | 0 | 11.01 | |
| Texas Christian U | - | 1.01 | - | 1.01 | | | | | | | | | | | 0 | 1.01 | |
| U of Toledo | 5.01 | 1.01 | 1 | 7.02 | | | | | | | | | | | 0 | 7.02 | |
| Tufts U | 1 | - | 1 | 1 | | | | | | | | | | | 0 | 1 | |
| Vanderbilt U | - | - | 1 | 1 | | | | | | | | | | | 0 | 3 | |
| U Washington | 8.02 | 1.01 | 2 | 11.03 | | | | | | | | | | | 0 | 11.03 | |
| Total | 418.39 | 86.12 | 87.18 | 591.69 | 3.01 | 2.01 | 2.00 | 4.00 | 9.02 | 4.01 | 1.01 | 4.00 | 16.02 | 12.02 | 16.04 | 44.08 | 652.81 |
| Percent within race | 70.7% | 14.6% | 14.7% | 100% | 42.9% | 28.6% | 28.5% | 44.3% | 100% | 44.5% | 11.2% | 44.3% | 36.3% | 27.3% | 36.4% | 100% | 0% |
| Percent of grand total | 64.1% | 13.2% | 13.4% | 90.6% | 0.46% | 0.31% | 0.31% | 1.08% | 0.61% | 0.61% | 0.15% | 0.61% | 2.5% | 1.8% | 2.5% | 6.8% | 0% |
| % Females in column | 9.3% | 14.0% | 20.7% | 11.7% | 33.3% | 50.0% | 0.0% | 22.2% | 25.0% | 100% | 100% | 0.0% | 12.5% | 16.7% | 25.0% | 18.2% | 0% |

*Ranked by the National Research Council in 1994; numbers after decimals designate females. Departments granting the PhD in astronomy or astrophysics, which are not shown, did not resp Reference: "The Nelson Diversity Surveys" Nelson, D. J.; Norman, OK, 2003; <http://cheminfo.chem.ou.edu/faculty/djn/diversity/top50.htm>

APPENDIX 2

Tables of data on US citizen and permanent resident PhD attainment in fourteen science and engineering disciplines each year from 1983 through 2002. Data are disaggregated by race/ethnicity and by gender.

Data are provided for PhD attainment in the following disciplines:

Table 1 Chemistry

Table 2 Physics

Table 3 Mathematics

Table 4 Computer Science

Table 5 Chemical Engineering

Table 6 Civil Engineering

Table 7 Electrical Engineering

Table 8 Mechanical Engineering

Table 9 Economics

Table 10 Political Science

Table 11 Sociology

Table 12 Psychology

Table 13 Biological Sciences

Table 14 Astronomy

Chemistry

| Table 1. PhDs in Chemistry | | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|----------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| US cit & perm res | | 1424 | 1415 | 1432 | 1413 | 1472 | 1451 | 1383 | 1497 | 1461 | 1441 | 1400 | 1616 | 1624 | 1462 | 1439 | 1466 | 1400 | 1241 | 1230 | 1227 | 28494 | 100% | 14105 | 100% |
| male | | 1175 | 1149 | 1154 | 1104 | 1145 | 1123 | 1018 | 1114 | 1093 | 1040 | 999 | 1152 | 1087 | 1024 | 1008 | 1004 | 980 | 819 | 822 | 807 | 20817 | 73.1% | 9702 | 68.8% |
| female | | 249 | 266 | 278 | 309 | 327 | 328 | 365 | 383 | 368 | 401 | 401 | 464 | 537 | 439 | 431 | 463 | 426 | 422 | 408 | 420 | 7685 | 27.0% | 4411 | 31.3% |
| White | | 1264 | 1211 | 1243 | 1208 | 1267 | 1257 | 1188 | 1284 | 1239 | 1219 | 1145 | 1179 | 1112 | 1063 | 1078 | 1127 | 1088 | 988 | 974 | 985 | 23119 | 82.9% | 10739 | 77.6% |
| male | | 1057 | 988 | 1013 | 952 | 996 | 981 | 872 | 969 | 926 | 901 | 846 | 872 | 760 | 754 | 773 | 785 | 797 | 665 | 677 | 663 | 17247 | 61.8% | 7592 | 54.8% |
| female | | 207 | 223 | 230 | 256 | 271 | 276 | 316 | 315 | 313 | 318 | 299 | 307 | 351 | 308 | 305 | 344 | 293 | 323 | 297 | 322 | 5874 | 21.1% | 3149 | 22.7% |
| Asians | | 83 | 97 | 112 | 109 | 108 | 85 | 96 | 99 | 122 | 135 | 157 | 332 | 416 | 295 | 235 | 207 | 187 | 121 | 126 | 127 | 3249 | 11.6% | 2203 | 15.9% |
| male | | 60 | 70 | 79 | 74 | 77 | 57 | 73 | 70 | 86 | 79 | 84 | 203 | 269 | 187 | 142 | 134 | 103 | 67 | 65 | 76 | 2055 | 7.4% | 1330 | 9.6% |
| female | | 23 | 27 | 33 | 35 | 31 | 28 | 23 | 29 | 36 | 56 | 71 | 128 | 146 | 108 | 92 | 72 | 80 | 54 | 61 | 51 | 1184 | 4.2% | 863 | 6.2% |
| Native Am. | | 3 | 3 | 2 | 5 | 6 | 5 | 5 | 3 | 9 | 6 | 2 | 4 | 5 | 4 | 6 | 7 | 5 | 7 | 11 | 5 | 103 | 0.4% | 56 | 0.4% |
| male | | 3 | 3 | 2 | 3 | 4 | 5 | 5 | 3 | 7 | 4 | 1 | 4 | 3 | 3 | 6 | 6 | 3 | 6 | 9 | 5 | 85 | 0.3% | 46 | 0.3% |
| female | | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 3 | 1 | 0 | 1 | 2 | 1 | 2 | 0 | 19 | 0.1% | 11 | 0.1% |
| Black | | 16 | 23 | 23 | 17 | 13 | 21 | 26 | 24 | 23 | 17 | 31 | 34 | 33 | 45 | 35 | 45 | 56 | 44 | 42 | 44 | 612 | 2.2% | 409 | 3.0% |
| male | | 14 | 21 | 17 | 14 | 11 | 14 | 19 | 17 | 18 | 12 | 22 | 25 | 16 | 35 | 26 | 17 | 33 | 25 | 23 | 22 | 401 | 1.4% | 244 | 1.8% |
| female | | 2 | 2 | 6 | 3 | 2 | 7 | 7 | 7 | 5 | 5 | 9 | 9 | 17 | 10 | 9 | 28 | 23 | 19 | 19 | 22 | 211 | 0.8% | 165 | 1.2% |
| Hispanic | | 21 | 33 | 17 | 25 | 44 | 48 | 43 | 57 | 46 | 42 | 51 | 59 | 43 | 35 | 44 | 34 | 42 | 51 | 43 | 38 | 816 | 2.9% | 440 | 3.2% |
| male | | 7 | 24 | 12 | 19 | 29 | 35 | 26 | 33 | 37 | 26 | 33 | 43 | 29 | 29 | 32 | 25 | 25 | 30 | 26 | 20 | 540 | 1.9% | 292 | 2.1% |
| female | | 14 | 9 | 5 | 6 | 15 | 13 | 17 | 24 | 9 | 16 | 18 | 16 | 14 | 7 | 12 | 9 | 21 | 21 | 17 | 18 | 281 | 1.0% | 153 | 1.1% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Physics

| Table 2. PhDs in Physics | | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|--------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | | 760 | 775 | 662 | 643 | 682 | 681 | 654 | 725 | 739 | 790 | 806 | 1044 | 1059 | 949 | 883 | 823 | 742 | 692 | 677 | 586 | 15372 | 100% | 8261 | 100% |
| male | | 703 | 716 | 603 | 588 | 620 | 621 | 596 | 663 | 663 | 696 | 712 | 907 | 916 | 815 | 759 | 716 | 647 | 609 | 590 | 495 | 13635 | 88.7% | 7166 | 86.7% |
| female | | 57 | 59 | 59 | 55 | 62 | 60 | 58 | 62 | 76 | 94 | 94 | 137 | 143 | 134 | 124 | 107 | 95 | 83 | 87 | 91 | 1737 | 11.3% | 1095 | 13.3% |
| White | | 655 | 677 | 580 | 571 | 606 | 577 | 555 | 618 | 634 | 641 | 656 | 735 | 687 | 684 | 659 | 651 | 630 | 571 | 557 | 460 | 12404 | 83.3% | 6290 | 78.2% |
| male | | 604 | 628 | 534 | 524 | 553 | 535 | 509 | 570 | 573 | 575 | 590 | 655 | 613 | 594 | 579 | 577 | 555 | 506 | 489 | 388 | 11151 | 74.9% | 5546 | 68.9% |
| female | | 51 | 49 | 46 | 47 | 53 | 42 | 46 | 48 | 61 | 66 | 66 | 80 | 74 | 90 | 80 | 74 | 75 | 65 | 68 | 72 | 1253 | 8.4% | 744 | 9.2% |
| Asians | | 53 | 47 | 36 | 31 | 34 | 47 | 57 | 58 | 50 | 88 | 101 | 254 | 311 | 195 | 157 | 111 | 66 | 68 | 70 | 61 | 1895 | 12.7% | 1394 | 17.3% |
| male | | 48 | 40 | 28 | 27 | 29 | 34 | 46 | 47 | 38 | 66 | 78 | 207 | 251 | 162 | 119 | 85 | 53 | 56 | 57 | 49 | 1520 | 10.2% | 1117 | 13.9% |
| female | | 5 | 7 | 8 | 4 | 5 | 13 | 11 | 11 | 12 | 22 | 23 | 47 | 60 | 33 | 38 | 26 | 13 | 12 | 13 | 12 | 375 | 2.5% | 277 | 3.4% |
| Native Am. | | 3 | 1 | 1 | 0 | 1 | 1 | 3 | 0 | 1 | 6 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 0 | 2 | 34 | 0.2% | 17 | 0.2% |
| male | | 3 | 1 | 1 | 0 | 1 | 0 | 3 | 0 | 1 | 6 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 0 | 2 | 31 | 0.2% | 15 | 0.2% |
| female | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0.0% | 2 | 0.0% |
| Black | | 9 | 11 | 4 | 8 | 5 | 12 | 5 | 5 | 9 | 6 | 7 | 11 | 8 | 14 | 14 | 10 | 8 | 16 | 12 | 19 | 193 | 1.3% | 119 | 1.5% |
| male | | 9 | 11 | 3 | 7 | 4 | 11 | 5 | 5 | 9 | 6 | 7 | 7 | 7 | 11 | 13 | 7 | 4 | 15 | 11 | 16 | 168 | 1.1% | 98 | 1.2% |
| female | | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 3 | 1 | 3 | 4 | 1 | 1 | 3 | 25 | 0.2% | 21 | 0.3% |
| Hispanic | | 5 | 14 | 13 | 13 | 12 | 13 | 14 | 13 | 18 | 26 | 26 | 29 | 26 | 29 | 22 | 18 | 16 | 23 | 15 | 22 | 367 | 2.5% | 226 | 2.8% |
| male | | 5 | 13 | 11 | 11 | 10 | 10 | 13 | 11 | 16 | 23 | 24 | 24 | 21 | 25 | 20 | 16 | 15 | 20 | 11 | 19 | 318 | 2.1% | 195 | 2.4% |
| female | | 0 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 2 | 5 | 5 | 4 | 2 | 2 | 1 | 3 | 4 | 3 | 49 | 0.3% | 31 | 0.4% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Mathematics

Table 3. PhDs in Math

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm re: | 457 | 443 | 418 | 402 | 396 | 386 | 428 | 422 | 518 | 507 | 590 | 657 | 771 | 648 | 629 | 669 | 605 | 574 | 524 | 442 | 10486 | 100% | 6109 | 100% |
| male | 371 | 357 | 336 | 329 | 319 | 316 | 327 | 329 | 406 | 390 | 426 | 506 | 588 | 503 | 452 | 471 | 413 | 410 | 370 | 308 | 7927 | 75.6% | 4447 | 72.8% |
| female | 86 | 86 | 82 | 73 | 77 | 70 | 101 | 93 | 112 | 117 | 164 | 151 | 183 | 145 | 177 | 198 | 192 | 164 | 154 | 134 | 2559 | 24.4% | 1662 | 27.2% |
| White | 395 | 380 | 350 | 343 | 319 | 332 | 369 | 372 | 419 | 425 | 476 | 479 | 535 | 478 | 479 | 526 | 506 | 464 | 428 | 369 | 8444 | 82.8% | 4740 | 79.4% |
| male | 319 | 308 | 280 | 282 | 258 | 273 | 281 | 293 | 335 | 332 | 352 | 361 | 409 | 373 | 344 | 376 | 347 | 338 | 308 | 258 | 6427 | 63.0% | 3466 | 58.1% |
| female | 76 | 72 | 70 | 61 | 61 | 59 | 88 | 79 | 84 | 93 | 124 | 118 | 126 | 105 | 135 | 150 | 159 | 126 | 120 | 111 | 2017 | 19.8% | 1274 | 21.3% |
| Asians | 34 | 30 | 33 | 28 | 41 | 33 | 24 | 27 | 57 | 52 | 79 | 142 | 207 | 140 | 97 | 71 | 56 | 70 | 48 | 29 | 1298 | 12.7% | 939 | 15.7% |
| male | 28 | 20 | 27 | 23 | 30 | 22 | 21 | 20 | 39 | 33 | 43 | 116 | 158 | 104 | 69 | 44 | 36 | 49 | 32 | 23 | 937 | 9.2% | 674 | 11.3% |
| female | 6 | 10 | 6 | 5 | 11 | 11 | 3 | 7 | 18 | 19 | 36 | 26 | 49 | 36 | 28 | 27 | 20 | 21 | 16 | 6 | 361 | 3.5% | 265 | 4.4% |
| Native Am. | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 27 | 0.3% | 18 | 0.3% |
| male | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 19 | 0.2% | 12 | 0.2% |
| female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0.1% | 6 | 0.1% |
| Black | 3 | 4 | 7 | 6 | 11 | 4 | 8 | 4 | 11 | 4 | 8 | 11 | 5 | 8 | 7 | 16 | 12 | 14 | 19 | 14 | 176 | 1.7% | 114 | 1.9% |
| male | 2 | 3 | 7 | 3 | 9 | 4 | 5 | 3 | 7 | 4 | 7 | 8 | 4 | 6 | 5 | 9 | 6 | 7 | 12 | 6 | 117 | 1.1% | 70 | 1.2% |
| female | 1 | 1 | 0 | 3 | 2 | 0 | 3 | 1 | 4 | 0 | 1 | 3 | 1 | 2 | 2 | 7 | 6 | 7 | 7 | 8 | 59 | 0.6% | 44 | 0.7% |
| Hispanic | 7 | 11 | 12 | 12 | 11 | 4 | 11 | 10 | 9 | 12 | 16 | 13 | 15 | 10 | 20 | 27 | 15 | 15 | 15 | 12 | 257 | 2.5% | 158 | 2.6% |
| male | 5 | 10 | 7 | 9 | 9 | 4 | 7 | 6 | 5 | 9 | 14 | 10 | 11 | 10 | 14 | 20 | 10 | 8 | 10 | 8 | 186 | 1.8% | 115 | 1.9% |
| female | 2 | 1 | 5 | 3 | 2 | 0 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 0 | 6 | 7 | 5 | 7 | 5 | 4 | 71 | 0.7% | 43 | 0.7% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA)

Computer Science

Table 4. PhDs in Computer Science

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 207 | 195 | 213 | 249 | 275 | 326 | 396 | 403 | 451 | 489 | 509 | 543 | 616 | 514 | 520 | 561 | 492 | 458 | 423 | 411 | 8251 | 100% | 5047 | 100% |
| male | 177 | 168 | 189 | 206 | 221 | 280 | 312 | 313 | 357 | 406 | 400 | 449 | 473 | 423 | 420 | 438 | 387 | 372 | 325 | 324 | 6640 | 80.5% | 4011 | 79.5% |
| female | 30 | 27 | 24 | 43 | 54 | 46 | 84 | 90 | 94 | 83 | 109 | 94 | 143 | 91 | 100 | 123 | 105 | 86 | 98 | 87 | 1611 | 19.5% | 1036 | 20.5% |
| White | 174 | 163 | 177 | 193 | 229 | 265 | 319 | 339 | 355 | 378 | 409 | 401 | 450 | 356 | 361 | 412 | 356 | 336 | 322 | 291 | 6286 | 78.6% | 3694 | 75.4% |
| male | 150 | 139 | 156 | 153 | 184 | 225 | 252 | 259 | 282 | 309 | 326 | 326 | 347 | 295 | 295 | 328 | 285 | 274 | 262 | 232 | 5079 | 63.5% | 2970 | 60.6% |
| female | 24 | 24 | 21 | 40 | 45 | 40 | 67 | 80 | 73 | 69 | 83 | 75 | 103 | 61 | 66 | 84 | 71 | 62 | 60 | 59 | 1207 | 15.1% | 724 | 14.8% |
| Asians | 20 | 20 | 17 | 37 | 26 | 44 | 52 | 48 | 66 | 86 | 77 | 116 | 137 | 111 | 107 | 90 | 87 | 76 | 61 | 86 | 1364 | 17.1% | 948 | 19.3% |
| male | 16 | 18 | 17 | 34 | 20 | 38 | 42 | 41 | 51 | 74 | 58 | 100 | 107 | 95 | 81 | 67 | 68 | 61 | 41 | 60 | 1089 | 13.6% | 738 | 15.1% |
| female | 4 | 2 | 0 | 3 | 6 | 6 | 10 | 7 | 15 | 12 | 19 | 16 | 30 | 16 | 26 | 23 | 19 | 15 | 20 | 26 | 275 | 3.4% | 210 | 4.3% |
| Native Am. | 1 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 0 | 4 | 1 | 4 | 1 | 1 | 1 | 2 | 26 | 0.3% | 16 | 0.3% |
| male | 1 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 1 | 1 | 2 | 18 | 0.2% | 10 | 0.2% |
| female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0.1% | 6 | 0.1% |
| Black | 3 | 3 | 3 | 1 | 2 | 2 | 1 | 1 | 8 | 5 | 6 | 10 | 11 | 12 | 4 | 14 | 18 | 18 | 15 | 17 | 154 | 1.9% | 125 | 2.6% |
| male | 1 | 2 | 3 | 1 | 1 | 2 | 0 | 1 | 4 | 4 | 2 | 8 | 7 | 9 | 3 | 6 | 9 | 13 | 5 | 10 | 91 | 1.1% | 72 | 1.5% |
| female | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 1 | 4 | 2 | 4 | 3 | 1 | 8 | 9 | 5 | 10 | 7 | 63 | 0.8% | 53 | 1.1% |
| Hispanic | 0 | 3 | 6 | 7 | 4 | 2 | 4 | 5 | 12 | 8 | 7 | 7 | 6 | 16 | 16 | 15 | 14 | 14 | 8 | 14 | 168 | 2.1% | 117 | 2.4% |
| male | 0 | 3 | 4 | 7 | 4 | 2 | 1 | 4 | 11 | 7 | 6 | 7 | 2 | 9 | 14 | 14 | 11 | 11 | 4 | 12 | 133 | 1.7% | 90 | 1.8% |
| female | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 1 | 0 | 4 | 7 | 2 | 1 | 3 | 3 | 4 | 2 | 35 | 0.4% | 27 | 0.6% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA)

Chemical Engineering

Table 5. PhDs in Chemical Engineering

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 200 | 199 | 292 | 298 | 350 | 408 | 444 | 392 | 399 | 378 | 377 | 380 | 381 | 391 | 409 | 374 | 371 | 382 | 358 | 336 | 7119 | 100% | 3759 | 100% |
| male | 185 | 181 | 261 | 256 | 298 | 355 | 375 | 330 | 339 | 296 | 313 | 302 | 293 | 293 | 332 | 298 | 296 | 282 | 265 | 248 | 5798 | 81.4% | 2922 | 77.7% |
| female | 15 | 18 | 31 | 42 | 52 | 53 | 69 | 62 | 60 | 82 | 64 | 78 | 88 | 98 | 77 | 76 | 75 | 100 | 93 | 88 | 1321 | 18.6% | 837 | 22.3% |
| White | 152 | 150 | 211 | 227 | 266 | 317 | 345 | 318 | 322 | 284 | 295 | 259 | 256 | 274 | 293 | 275 | 286 | 280 | 269 | 233 | 5312 | 76.3% | 2720 | 73.9% |
| male | 140 | 138 | 190 | 196 | 223 | 272 | 293 | 270 | 277 | 225 | 244 | 211 | 196 | 205 | 241 | 223 | 236 | 213 | 210 | 171 | 4374 | 62.9% | 2150 | 58.4% |
| female | 12 | 12 | 21 | 31 | 43 | 45 | 52 | 48 | 45 | 59 | 51 | 48 | 60 | 69 | 52 | 52 | 50 | 67 | 59 | 62 | 938 | 13.5% | 570 | 15.5% |
| Asians | 32 | 34 | 60 | 58 | 60 | 67 | 77 | 51 | 50 | 54 | 62 | 96 | 101 | 80 | 73 | 65 | 58 | 69 | 53 | 71 | 1271 | 18.3% | 728 | 19.8% |
| male | 32 | 29 | 54 | 52 | 54 | 61 | 66 | 40 | 41 | 38 | 55 | 71 | 76 | 62 | 61 | 46 | 44 | 48 | 34 | 49 | 1013 | 14.6% | 546 | 14.8% |
| female | 0 | 5 | 6 | 6 | 6 | 6 | 11 | 11 | 9 | 16 | 7 | 25 | 25 | 18 | 12 | 19 | 14 | 21 | 19 | 22 | 258 | 3.7% | 182 | 4.9% |
| Native Am. | 0 | 2 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 3 | 2 | 1 | 2 | 26 | 0.4% | 18 | 0.5% |
| male | 0 | 2 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 3 | 0 | 1 | 0 | 1 | 2 | 19 | 0.3% | 12 | 0.3% |
| female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 7 | 0.1% | 6 | 0.2% |
| Black | 3 | 2 | 6 | 4 | 4 | 7 | 5 | 10 | 8 | 13 | 6 | 8 | 3 | 12 | 16 | 3 | 11 | 8 | 17 | 12 | 158 | 2.3% | 96 | 2.6% |
| male | 3 | 2 | 4 | 3 | 4 | 6 | 4 | 8 | 7 | 12 | 3 | 4 | 2 | 7 | 10 | 2 | 7 | 3 | 7 | 6 | 104 | 1.5% | 51 | 1.4% |
| female | 0 | 0 | 2 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 3 | 4 | 1 | 5 | 6 | 1 | 4 | 5 | 10 | 6 | 54 | 0.8% | 45 | 1.2% |
| Hispanic | 6 | 3 | 2 | 4 | 11 | 5 | 9 | 8 | 11 | 16 | 10 | 7 | 13 | 19 | 7 | 13 | 7 | 18 | 7 | 16 | 192 | 2.8% | 117 | 3.2% |
| male | 5 | 2 | 2 | 2 | 8 | 5 | 5 | 7 | 7 | 12 | 7 | 7 | 11 | 13 | 4 | 13 | 3 | 14 | 2 | 9 | 138 | 2.0% | 83 | 2.3% |
| female | 1 | 1 | 0 | 2 | 3 | 0 | 4 | 1 | 4 | 4 | 3 | 0 | 2 | 6 | 3 | 0 | 4 | 4 | 5 | 7 | 54 | 0.8% | 34 | 0.9% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Civil Engineering

Table 6. PhDs in Civil Engineering

| | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 85-02 | % | 93-02 | % |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 170 | 192 | 203 | 233 | 247 | 241 | 213 | 215 | 227 | 292 | 309 | 305 | 327 | 297 | 312 | 261 | 269 | 245 | 4558 | 100% | 2844 | 100% |
| male | 159 | 177 | 192 | 218 | 207 | 207 | 188 | 192 | 195 | 237 | 257 | 258 | 269 | 239 | 251 | 213 | 203 | 189 | 3851 | 84.5% | 2311 | 81.3% |
| female | 11 | 15 | 11 | 15 | 40 | 34 | 25 | 23 | 32 | 55 | 52 | 47 | 58 | 58 | 61 | 48 | 66 | 56 | 707 | 15.5% | 533 | 18.7% |
| White | 130 | 152 | 158 | 183 | 191 | 196 | 159 | 166 | 168 | 199 | 194 | 199 | 220 | 217 | 241 | 194 | 194 | 183 | 3344 | 75.3% | 2009 | 72.6% |
| male | 120 | 139 | 149 | 171 | 157 | 167 | 143 | 147 | 143 | 153 | 160 | 168 | 180 | 172 | 194 | 160 | 143 | 143 | 2809 | 63.3% | 1616 | 58.4% |
| female | 10 | 13 | 9 | 12 | 34 | 29 | 16 | 19 | 25 | 46 | 34 | 31 | 40 | 45 | 47 | 34 | 51 | 40 | 535 | 12.0% | 393 | 14.2% |
| Asians | 26 | 26 | 34 | 27 | 36 | 28 | 30 | 34 | 41 | 69 | 91 | 89 | 72 | 38 | 46 | 43 | 37 | 29 | 796 | 17.9% | 555 | 20.1% |
| male | 25 | 26 | 32 | 26 | 33 | 25 | 26 | 32 | 39 | 65 | 77 | 75 | 58 | 32 | 41 | 33 | 28 | 22 | 695 | 15.6% | 470 | 17.0% |
| female | 1 | 0 | 2 | 1 | 3 | 3 | 4 | 2 | 2 | 4 | 14 | 14 | 14 | 6 | 5 | 10 | 9 | 7 | 101 | 2.3% | 85 | 3.1% |
| Native Am. | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 1 | 0 | 0 | 14 | 0.3% | 7 | 0.3% |
| male | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 8 | 0.2% | 3 | 0.1% |
| female | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 6 | 0.1% | 4 | 0.1% |
| Black | 4 | 4 | 4 | 1 | 5 | 1 | 12 | 3 | 5 | 8 | 11 | 8 | 10 | 9 | 6 | 6 | 11 | 13 | 121 | 2.7% | 87 | 3.1% |
| male | 4 | 3 | 4 | 1 | 5 | 1 | 10 | 3 | 3 | 6 | 8 | 7 | 10 | 7 | 4 | 5 | 11 | 9 | 101 | 2.3% | 70 | 2.5% |
| female | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 3 | 1 | 0 | 2 | 2 | 1 | 0 | 4 | 20 | 0.5% | 17 | 0.6% |
| Hispanic | 7 | 7 | 1 | 13 | 8 | 9 | 5 | 7 | 12 | 14 | 11 | 6 | 12 | 16 | 12 | 9 | 8 | 166 | 3.7% | 109 | 3.9% | |
| male | 7 | 7 | 1 | 12 | 8 | 7 | 3 | 6 | 10 | 11 | 10 | 6 | 11 | 13 | 6 | 8 | 7 | 8 | 141 | 3.2% | 90 | 3.3% |
| female | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 0 | 1 | 3 | 6 | 1 | 2 | 0 | 25 | 0.6% | 19 | 0.7% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Electrical Engineering

Table 7. PhDs in Electrical Engineering

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 287 | 314 | 353 | 410 | 393 | 503 | 539 | 599 | 686 | 719 | 795 | 899 | 971 | 929 | 940 | 804 | 766 | 648 | 559 | 506 | 12620 | 100% | 7817 | 100% |
| male | 280 | 305 | 331 | 385 | 378 | 470 | 503 | 552 | 638 | 652 | 715 | 811 | 851 | 823 | 834 | 713 | 685 | 555 | 493 | 440 | 11414 | 90.4% | 6920 | 88.5% |
| female | 7 | 9 | 22 | 25 | 15 | 33 | 36 | 47 | 48 | 67 | 80 | 88 | 120 | 106 | 106 | 91 | 81 | 93 | 66 | 66 | 1206 | 9.6% | 897 | 11.5% |
| White | 214 | 231 | 259 | 319 | 283 | 363 | 405 | 450 | 478 | 487 | 553 | 548 | 590 | 589 | 579 | 523 | 510 | 443 | 368 | 306 | 8498 | 69.3% | 5009 | 65.7% |
| male | 209 | 227 | 243 | 299 | 271 | 341 | 378 | 411 | 444 | 447 | 504 | 494 | 523 | 523 | 525 | 470 | 466 | 388 | 334 | 276 | 7773 | 63.4% | 4503 | 59.1% |
| female | 5 | 4 | 16 | 20 | 12 | 22 | 27 | 39 | 34 | 40 | 49 | 54 | 67 | 66 | 54 | 53 | 44 | 55 | 34 | 30 | 725 | 5.9% | 506 | 6.6% |
| Asians | 58 | 59 | 63 | 71 | 78 | 103 | 93 | 115 | 140 | 175 | 198 | 303 | 322 | 276 | 256 | 205 | 172 | 141 | 133 | 132 | 3093 | 25.2% | 2138 | 28.0% |
| male | 57 | 54 | 59 | 67 | 75 | 97 | 85 | 109 | 135 | 154 | 173 | 272 | 276 | 246 | 217 | 174 | 146 | 108 | 105 | 106 | 2715 | 22.1% | 1823 | 23.9% |
| female | 1 | 5 | 4 | 4 | 3 | 6 | 8 | 6 | 5 | 21 | 25 | 31 | 46 | 30 | 39 | 31 | 26 | 33 | 28 | 26 | 378 | 3.1% | 315 | 4.1% |
| Native Am. | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 2 | 4 | 0 | 1 | 1 | 2 | 5 | 3 | 1 | 0 | 1 | 0 | 26 | 0.2% | 14 | 0.2% |
| male | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 1 | 1 | 5 | 3 | 1 | 0 | 1 | 0 | 23 | 0.2% | 13 | 0.2% |
| female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0.0% | 1 | 0.0% |
| Black | 2 | 3 | 8 | 4 | 3 | 7 | 9 | 8 | 16 | 17 | 15 | 17 | 24 | 22 | 31 | 23 | 30 | 21 | 22 | 16 | 298 | 2.4% | 221 | 2.9% |
| male | 2 | 3 | 8 | 4 | 3 | 5 | 9 | 7 | 14 | 15 | 13 | 14 | 20 | 17 | 27 | 19 | 25 | 19 | 21 | 12 | 257 | 2.1% | 187 | 2.5% |
| female | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 4 | 4 | 5 | 2 | 1 | 4 | 41 | 0.3% | 34 | 0.4% |
| Hispanic | 4 | 8 | 4 | 9 | 6 | 14 | 14 | 13 | 16 | 17 | 17 | 21 | 15 | 27 | 26 | 31 | 30 | 22 | 22 | 30 | 346 | 2.8% | 241 | 3.2% |
| male | 4 | 8 | 4 | 8 | 6 | 12 | 13 | 12 | 16 | 14 | 14 | 21 | 14 | 23 | 20 | 29 | 26 | 21 | 19 | 26 | 310 | 2.5% | 213 | 2.8% |
| female | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 3 | 3 | 0 | 1 | 4 | 6 | 2 | 4 | 1 | 3 | 4 | 36 | 0.3% | 28 | 0.4% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Mechanical Engineering

Table 8. PhDs in Mechanical Engineering

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 192 | 202 | 251 | 267 | 308 | 327 | 325 | 368 | 359 | 426 | 434 | 538 | 563 | 588 | 538 | 516 | 463 | 397 | 427 | 343 | 7832 | 100% | 4807 | 100% |
| male | 186 | 190 | 233 | 254 | 297 | 310 | 306 | 344 | 322 | 401 | 398 | 484 | 514 | 528 | 483 | 466 | 403 | 341 | 389 | 299 | 7148 | 91.3% | 4305 | 89.6% |
| female | 6 | 12 | 18 | 13 | 11 | 17 | 19 | 24 | 37 | 25 | 36 | 54 | 49 | 60 | 55 | 50 | 60 | 56 | 38 | 44 | 684 | 8.7% | 502 | 10.4% |
| White | 146 | 154 | 176 | 210 | 230 | 253 | 241 | 286 | 266 | 326 | 328 | 337 | 339 | 392 | 377 | 371 | 335 | 279 | 301 | 227 | 5574 | 73.1% | 3286 | 70.1% |
| male | 142 | 143 | 159 | 198 | 219 | 237 | 224 | 267 | 236 | 307 | 296 | 311 | 314 | 353 | 344 | 334 | 290 | 246 | 274 | 207 | 5101 | 66.9% | 2969 | 63.4% |
| female | 4 | 11 | 17 | 12 | 11 | 16 | 17 | 19 | 30 | 19 | 32 | 26 | 25 | 39 | 33 | 37 | 45 | 33 | 27 | 20 | 473 | 6.2% | 317 | 6.8% |
| Asians | 34 | 37 | 58 | 31 | 61 | 57 | 66 | 69 | 62 | 78 | 93 | 179 | 188 | 166 | 113 | 89 | 88 | 72 | 76 | 71 | 1688 | 22.1% | 1135 | 24.2% |
| male | 33 | 36 | 57 | 31 | 61 | 57 | 65 | 66 | 59 | 74 | 90 | 155 | 165 | 149 | 97 | 79 | 77 | 56 | 68 | 56 | 1531 | 20.1% | 992 | 21.2% |
| female | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 3 | 3 | 4 | 3 | 24 | 23 | 17 | 16 | 10 | 11 | 16 | 8 | 15 | 157 | 2.1% | 143 | 3.1% |
| Native Am. | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 3 | 6 | 2 | 2 | 3 | 1 | 1 | 26 | 0.3% | 20 | 0.4% |
| male | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 3 | 5 | 2 | 2 | 2 | 1 | 1 | 24 | 0.3% | 18 | 0.4% |
| female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0.0% | 2 | 0.0% |
| Black | 5 | 2 | 3 | 3 | 3 | 1 | 5 | 5 | 3 | 5 | 3 | 7 | 13 | 10 | 12 | 14 | 12 | 18 | 17 | 17 | 158 | 2.1% | 123 | 2.6% |
| male | 4 | 2 | 3 | 2 | 3 | 1 | 5 | 5 | 2 | 5 | 3 | 6 | 12 | 7 | 11 | 14 | 11 | 13 | 16 | 13 | 138 | 1.8% | 106 | 2.3% |
| female | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 1 | 5 | 1 | 4 | 20 | 0.3% | 17 | 0.4% |
| Hispanic | 2 | 5 | 3 | 6 | 5 | 7 | 3 | 5 | 9 | 11 | 5 | 8 | 8 | 13 | 14 | 19 | 9 | 12 | 21 | 12 | 177 | 2.3% | 121 | 2.6% |
| male | 2 | 5 | 3 | 6 | 5 | 6 | 2 | 4 | 7 | 9 | 5 | 7 | 8 | 13 | 11 | 18 | 8 | 11 | 21 | 7 | 158 | 2.1% | 109 | 2.3% |
| female | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 3 | 1 | 1 | 1 | 0 | 5 | 19 | 0.2% | 12 | 0.3% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Economics

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 652 | 594 | 586 | 617 | 573 | 573 | 575 | 541 | 528 | 522 | 511 | 566 | 626 | 608 | 590 | 578 | 543 | 503 | 459 | 424 | 11169 | 100% | 5408 | 100% |
| male | 531 | 480 | 479 | 484 | 456 | 433 | 435 | 402 | 392 | 377 | 365 | 401 | 442 | 449 | 428 | 406 | 375 | 359 | 305 | 295 | 8294 | 74.3% | 3825 | 70.7% |
| female | 121 | 114 | 107 | 133 | 117 | 140 | 140 | 139 | 136 | 145 | 146 | 165 | 184 | 159 | 162 | 172 | 168 | 144 | 154 | 129 | 2875 | 25.7% | 1583 | 29.3% |
| White | 567 | 501 | 494 | 537 | 476 | 478 | 488 | 455 | 421 | 428 | 417 | 430 | 459 | 450 | 431 | 428 | 417 | 397 | 358 | 327 | 8959 | 82.2% | 4114 | 77.7% |
| male | 466 | 407 | 401 | 416 | 377 | 360 | 365 | 339 | 314 | 304 | 300 | 296 | 317 | 331 | 314 | 301 | 290 | 283 | 244 | 233 | 6658 | 61.1% | 2909 | 54.9% |
| female | 101 | 94 | 93 | 121 | 99 | 118 | 123 | 116 | 107 | 124 | 117 | 134 | 142 | 119 | 117 | 127 | 127 | 114 | 114 | 94 | 2301 | 21.1% | 1205 | 22.8% |
| Asians | 40 | 37 | 29 | 33 | 50 | 51 | 38 | 36 | 41 | 46 | 51 | 93 | 120 | 103 | 89 | 85 | 65 | 48 | 56 | 56 | 1167 | 10.7% | 766 | 14.5% |
| male | 26 | 32 | 20 | 23 | 41 | 41 | 32 | 26 | 24 | 31 | 29 | 72 | 88 | 75 | 56 | 54 | 40 | 32 | 30 | 31 | 803 | 7.4% | 507 | 9.6% |
| female | 14 | 5 | 9 | 10 | 9 | 10 | 6 | 10 | 17 | 15 | 22 | 21 | 32 | 28 | 33 | 31 | 25 | 16 | 26 | 25 | 364 | 3.3% | 259 | 4.9% |
| Native Am. | 0 | 1 | 2 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 2 | 0 | 19 | 0.17% | 9 | 0.17% |
| male | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 13 | 0.1% | 6 | 0.1% |
| female | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 6 | 0.1% | 3 | 0.1% |
| Black | 16 | 23 | 21 | 16 | 17 | 19 | 17 | 25 | 29 | 25 | 23 | 23 | 25 | 22 | 22 | 23 | 28 | 22 | 12 | 13 | 421 | 3.86% | 213 | 4.02% |
| male | 12 | 13 | 21 | 15 | 13 | 15 | 14 | 17 | 27 | 24 | 19 | 17 | 21 | 18 | 19 | 17 | 20 | 17 | 10 | 10 | 339 | 3.1% | 168 | 3.2% |
| female | 4 | 10 | 0 | 1 | 4 | 4 | 3 | 8 | 2 | 1 | 4 | 6 | 4 | 4 | 3 | 6 | 8 | 5 | 2 | 3 | 82 | 0.8% | 45 | 0.9% |
| Hispanic | 12 | 16 | 17 | 8 | 15 | 12 | 16 | 15 | 16 | 14 | 15 | 15 | 14 | 20 | 25 | 26 | 21 | 22 | 18 | 16 | 333 | 3.06% | 192 | 3.63% |
| male | 11 | 14 | 14 | 8 | 12 | 6 | 9 | 12 | 11 | 10 | 12 | 11 | 10 | 14 | 20 | 21 | 16 | 17 | 13 | 10 | 251 | 2.3% | 144 | 2.7% |
| female | 1 | 2 | 3 | 0 | 3 | 6 | 7 | 3 | 5 | 4 | 3 | 4 | 4 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 82 | 0.8% | 48 | 0.9% |

Data source: Survey of Eamed Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Political Science

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm re | 532 | 542 | 501 | 487 | 461 | 426 | 488 | 536 | 552 | 599 | 618 | 715 | 689 | 743 | 788 | 791 | 805 | 803 | 747 | 729 | 12552 | 100% | 7428 | 100% |
| male | 391 | 396 | 356 | 321 | 312 | 296 | 311 | 388 | 366 | 399 | 413 | 469 | 469 | 481 | 527 | 470 | 502 | 503 | 471 | 402 | 8243 | 65.7% | 4707 | 63.4% |
| female | 141 | 146 | 145 | 166 | 149 | 130 | 177 | 148 | 186 | 200 | 205 | 246 | 220 | 262 | 261 | 321 | 303 | 300 | 276 | 327 | 4309 | 34.3% | 2721 | 36.6% |
| White | 439 | 436 | 406 | 402 | 385 | 360 | 410 | 429 | 450 | 490 | 513 | 570 | 560 | 592 | 655 | 633 | 640 | 637 | 586 | 575 | 10168 | 83.5% | 5961 | 82.5% |
| male | 319 | 318 | 292 | 267 | 255 | 246 | 259 | 300 | 295 | 318 | 336 | 365 | 379 | 391 | 438 | 377 | 396 | 414 | 374 | 319 | 6658 | 54.6% | 3789 | 52.4% |
| female | 120 | 118 | 114 | 135 | 130 | 114 | 151 | 129 | 155 | 172 | 177 | 205 | 181 | 201 | 217 | 256 | 244 | 223 | 212 | 256 | 3510 | 28.8% | 2172 | 30.1% |
| Asians | 11 | 22 | 12 | 21 | 12 | 13 | 20 | 25 | 25 | 36 | 30 | 48 | 51 | 46 | 45 | 42 | 46 | 38 | 36 | 33 | 612 | 5.0% | 415 | 5.7% |
| male | 9 | 16 | 9 | 15 | 10 | 10 | 10 | 22 | 18 | 25 | 24 | 34 | 35 | 30 | 29 | 26 | 28 | 24 | 15 | 17 | 406 | 3.3% | 262 | 3.6% |
| female | 2 | 6 | 3 | 6 | 2 | 3 | 10 | 3 | 7 | 11 | 6 | 14 | 16 | 16 | 16 | 16 | 18 | 14 | 21 | 16 | 206 | 1.7% | 153 | 2.1% |
| Native Am. | 1 | 1 | 1 | 0 | 2 | 1 | 2 | 1 | 3 | 3 | 0 | 4 | 2 | 4 | 4 | 3 | 7 | 4 | 5 | 3 | 51 | 0.42% | 36 | 0.50% |
| male | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 3 | 2 | 0 | 3 | 2 | 2 | 0 | 2 | 6 | 2 | 3 | 1 | 33 | 0.3% | 21 | 0.3% |
| female | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 4 | 1 | 1 | 2 | 2 | 2 | 18 | 0.1% | 15 | 0.2% |
| Black | 34 | 35 | 45 | 34 | 31 | 29 | 40 | 48 | 38 | 42 | 45 | 52 | 49 | 59 | 37 | 55 | 59 | 61 | 71 | 61 | 925 | 7.59% | 549 | 7.60% |
| male | 23 | 27 | 30 | 18 | 21 | 24 | 29 | 36 | 28 | 31 | 28 | 35 | 30 | 32 | 25 | 26 | 40 | 28 | 43 | 31 | 585 | 4.8% | 318 | 4.4% |
| female | 11 | 8 | 15 | 16 | 10 | 5 | 11 | 12 | 10 | 11 | 17 | 17 | 19 | 27 | 12 | 29 | 19 | 33 | 28 | 30 | 340 | 2.8% | 231 | 3.2% |
| Hispanic | 19 | 15 | 14 | 16 | 20 | 10 | 9 | 20 | 22 | 19 | 20 | 24 | 21 | 29 | 19 | 35 | 31 | 28 | 21 | 36 | 428 | 3.51% | 264 | 3.65% |
| male | 14 | 11 | 7 | 11 | 16 | 7 | 5 | 17 | 13 | 16 | 16 | 17 | 18 | 15 | 14 | 22 | 15 | 17 | 14 | 19 | 284 | 2.3% | 167 | 2.3% |
| female | 5 | 4 | 7 | 5 | 4 | 3 | 4 | 3 | 9 | 3 | 4 | 7 | 3 | 14 | 5 | 13 | 16 | 11 | 7 | 17 | 144 | 1.2% | 97 | 1.3% |

Data source: Survey of Eamed Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Sociology

Table 11. PhDs in Sociology

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 450 | 442 | 392 | 405 | 346 | 351 | 326 | 329 | 365 | 378 | 395 | 420 | 429 | 424 | 461 | 442 | 459 | 514 | 469 | 475 | 8272 | 100% | 4488 | 100% |
| male | 246 | 234 | 178 | 209 | 193 | 160 | 135 | 152 | 170 | 175 | 186 | 182 | 188 | 188 | 188 | 182 | 164 | 205 | 182 | 185 | 3696 | 44.7% | 1844 | 41.1% |
| female | 204 | 208 | 214 | 196 | 153 | 191 | 191 | 177 | 195 | 203 | 209 | 238 | 247 | 236 | 273 | 260 | 295 | 309 | 287 | 290 | 4576 | 55.3% | 2644 | 58.9% |
| White | 391 | 382 | 332 | 338 | 295 | 289 | 257 | 258 | 285 | 306 | 316 | 332 | 328 | 328 | 346 | 345 | 346 | 382 | 349 | 348 | 6553 | 81.0% | 3420 | 78.1% |
| male | 213 | 192 | 147 | 174 | 160 | 126 | 104 | 117 | 130 | 134 | 152 | 138 | 132 | 140 | 138 | 135 | 130 | 143 | 128 | 144 | 2877 | 35.5% | 1380 | 31.5% |
| female | 178 | 190 | 185 | 164 | 135 | 163 | 153 | 141 | 155 | 172 | 164 | 194 | 196 | 188 | 208 | 210 | 216 | 239 | 221 | 204 | 3676 | 45.4% | 2040 | 46.6% |
| Asians | 10 | 11 | 8 | 11 | 19 | 14 | 13 | 15 | 19 | 24 | 21 | 38 | 50 | 44 | 29 | 23 | 30 | 32 | 30 | 30 | 471 | 5.8% | 327 | 7.5% |
| male | 3 | 8 | 5 | 6 | 13 | 6 | 8 | 6 | 9 | 13 | 7 | 19 | 22 | 17 | 12 | 10 | 6 | 16 | 12 | 10 | 208 | 2.6% | 131 | 3.0% |
| female | 7 | 3 | 3 | 5 | 6 | 8 | 5 | 9 | 10 | 11 | 14 | 19 | 28 | 27 | 17 | 13 | 24 | 16 | 18 | 20 | 263 | 3.2% | 196 | 4.5% |
| Native Am. | 0 | 1 | 1 | 4 | 2 | 2 | 1 | 1 | 2 | 6 | 0 | 4 | 1 | 7 | 4 | 3 | 4 | 6 | 2 | 7 | 58 | 0.72% | 38 | 0.87% |
| male | 0 | 1 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 3 | 0 | 0 | 1 | 5 | 1 | 0 | 1 | 3 | 1 | 0 | 24 | 0.3% | 12 | 0.3% |
| female | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 3 | 0 | 4 | 0 | 2 | 3 | 3 | 3 | 3 | 1 | 7 | 34 | 0.4% | 26 | 0.6% |
| Black | 26 | 28 | 26 | 26 | 12 | 22 | 28 | 23 | 27 | 26 | 29 | 26 | 29 | 25 | 42 | 40 | 45 | 57 | 44 | 46 | 627 | 7.75% | 383 | 8.75% |
| male | 15 | 16 | 13 | 13 | 8 | 14 | 13 | 12 | 8 | 14 | 11 | 15 | 13 | 13 | 18 | 21 | 18 | 26 | 18 | 19 | 298 | 3.7% | 172 | 3.9% |
| female | 11 | 12 | 13 | 13 | 4 | 8 | 15 | 11 | 19 | 12 | 18 | 11 | 16 | 12 | 24 | 19 | 27 | 31 | 26 | 27 | 329 | 4.1% | 211 | 4.8% |
| Hispanic | 11 | 17 | 18 | 14 | 10 | 17 | 23 | 27 | 23 | 13 | 21 | 12 | 16 | 13 | 19 | 15 | 26 | 26 | 38 | 25 | 384 | 4.74% | 211 | 4.82% |
| male | 8 | 15 | 9 | 5 | 6 | 8 | 10 | 13 | 14 | 8 | 12 | 5 | 10 | 7 | 10 | 7 | 8 | 15 | 19 | 8 | 197 | 2.4% | 101 | 2.3% |
| female | 3 | 2 | 9 | 9 | 4 | 9 | 13 | 14 | 9 | 5 | 9 | 7 | 6 | 6 | 9 | 8 | 18 | 11 | 19 | 17 | 187 | 2.3% | 110 | 2.5% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Psychology

Table 12. PhDs in Psychology

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| US cit/perm res | 3108 | 2986 | 2864 | 2832 | 2806 | 2729 | 2737 | 2992 | 3018 | 2986 | 3161 | 3136 | 3184 | 3233 | 3129 | 3274 | 3293 | 3231 | 3032 | 2790 | 60521 | 100% | 31463 | 100% |
| male | 1605 | 1466 | 1425 | 1362 | 1277 | 1217 | 1174 | 1220 | 1128 | 1206 | 1223 | 1169 | 1127 | 1048 | 1022 | 1063 | 1064 | 1054 | 982 | 914 | 23746 | 39.2% | 10666 | 33.9% |
| female | 1503 | 1520 | 1439 | 1470 | 1529 | 1512 | 1563 | 1772 | 1890 | 1780 | 1938 | 1967 | 2057 | 2185 | 2107 | 2211 | 2229 | 2177 | 2050 | 1876 | 36775 | 60.8% | 20797 | 66.1% |
| White | 2785 | 2683 | 2590 | 2547 | 2516 | 2445 | 2452 | 2648 | 2652 | 2635 | 2803 | 2729 | 2722 | 2744 | 2523 | 2645 | 2702 | 2605 | 2453 | 2226 | 52105 | 87.6% | 26152 | 84.8% |
| male | 1456 | 1318 | 1302 | 1234 | 1170 | 1094 | 1065 | 1075 | 991 | 1078 | 1094 | 1028 | 980 | 909 | 833 | 882 | 913 | 881 | 825 | 746 | 20874 | 35.1% | 9091 | 29.5% |
| female | 1329 | 1365 | 1288 | 1313 | 1346 | 1351 | 1387 | 1573 | 1661 | 1557 | 1709 | 1701 | 1742 | 1835 | 1690 | 1763 | 1789 | 1724 | 1628 | 1480 | 31231 | 52.5% | 17061 | 55.3% |
| Asians | 44 | 43 | 44 | 41 | 47 | 47 | 55 | 53 | 59 | 73 | 108 | 121 | 121 | 121 | 126 | 113 | 132 | 146 | 122 | 128 | 1682 | 2.8% | 1190 | 3.9% |
| male | 23 | 21 | 23 | 18 | 16 | 20 | 28 | 22 | 15 | 20 | 22 | 32 | 43 | 31 | 31 | 29 | 34 | 47 | 29 | 43 | 547 | 0.9% | 341 | 1.1% |
| female | 21 | 22 | 21 | 23 | 31 | 27 | 27 | 31 | 44 | 39 | 51 | 76 | 78 | 90 | 95 | 84 | 98 | 99 | 93 | 85 | 1135 | 1.9% | 849 | 2.8% |
| Native Am. | 9 | 6 | 10 | 9 | 16 | 7 | 11 | 19 | 13 | 15 | 15 | 12 | 14 | 17 | 18 | 31 | 35 | 22 | 17 | 15 | 311 | 0.5% | 196 | 0.6% |
| male | 7 | 5 | 5 | 4 | 4 | 3 | 3 | 6 | 5 | 6 | 6 | 5 | 6 | 8 | 6 | 13 | 12 | 3 | 5 | 7 | 119 | 0.2% | 71 | 0.2% |
| female | 2 | 1 | 5 | 5 | 12 | 4 | 8 | 13 | 8 | 9 | 9 | 7 | 8 | 9 | 12 | 18 | 23 | 19 | 12 | 8 | 192 | 0.3% | 125 | 0.4% |
| Black | 112 | 121 | 105 | 109 | 93 | 103 | 97 | 115 | 130 | 106 | 118 | 124 | 149 | 152 | 152 | 158 | 172 | 189 | 174 | 172 | 2651 | 4.5% | 1560 | 5.1% |
| male | 37 | 45 | 42 | 42 | 34 | 46 | 36 | 43 | 44 | 28 | 44 | 46 | 39 | 38 | 41 | 43 | 37 | 45 | 50 | 43 | 823 | 1.4% | 426 | 1.4% |
| female | 75 | 76 | 63 | 67 | 59 | 57 | 61 | 72 | 86 | 78 | 74 | 78 | 110 | 114 | 111 | 115 | 135 | 144 | 124 | 129 | 1828 | 3.1% | 1134 | 3.7% |
| Hispanic | 94 | 84 | 69 | 90 | 95 | 93 | 93 | 109 | 122 | 133 | 131 | 133 | 146 | 173 | 171 | 208 | 215 | 211 | 175 | 184 | 2729 | 4.6% | 1747 | 5.7% |
| male | 43 | 42 | 28 | 47 | 32 | 38 | 30 | 52 | 52 | 55 | 45 | 43 | 49 | 53 | 64 | 56 | 57 | 60 | 46 | 56 | 948 | 1.6% | 529 | 1.7% |
| female | 51 | 42 | 41 | 43 | 63 | 55 | 63 | 57 | 70 | 78 | 86 | 90 | 97 | 120 | 107 | 152 | 158 | 151 | 129 | 128 | 1781 | 3.0% | 1218 | 3.9% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Biology

Table 13. PhDs in Biological Sciences

| | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 83-02 | % | 93-02 | % |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| US cit & perm res | 3324 | 3399 | 3256 | 3241 | 3141 | 3323 | 3299 | 3380 | 3525 | 3568 | 3752 | 4088 | 4329 | 4364 | 4256 | 4308 | 4124 | 4268 | 4241 | 4102 | 71186 | 100% | 41832 | 100% |
| male | 2202 | 2308 | 2178 | 2125 | 1997 | 2071 | 2023 | 2068 | 2135 | 2130 | 2168 | 2345 | 2470 | 2423 | 2336 | 2387 | 2260 | 2281 | 2272 | 2187 | 42179 | 59.3% | 23129 | 55.3% |
| female | 1122 | 1091 | 1078 | 1116 | 1144 | 1252 | 1276 | 1312 | 1390 | 1438 | 1584 | 1743 | 1859 | 1941 | 1920 | 1921 | 1864 | 1987 | 1969 | 1915 | 29007 | 40.7% | 18703 | 44.7% |
| White | 2995 | 3044 | 2913 | 2888 | 2759 | 2966 | 2904 | 2975 | 3041 | 3068 | 3144 | 3105 | 3115 | 3170 | 3158 | 3246 | 3128 | 3308 | 3253 | 3114 | 58180 | 83.3% | 31741 | 77.4% |
| male | 2007 | 2085 | 1962 | 1911 | 1764 | 1852 | 1784 | 1821 | 1871 | 1847 | 1833 | 1758 | 1770 | 1771 | 1760 | 1810 | 1726 | 1798 | 1768 | 1723 | 34898 | 50.0% | 17717 | 43.2% |
| female | 988 | 959 | 951 | 977 | 995 | 1114 | 1120 | 1154 | 1170 | 1221 | 1311 | 1347 | 1345 | 1399 | 1398 | 1436 | 1402 | 1510 | 1485 | 1391 | 23282 | 33.3% | 14024 | 34.2% |
| Asians | 164 | 158 | 151 | 168 | 170 | 171 | 201 | 200 | 261 | 268 | 366 | 719 | 920 | 885 | 721 | 657 | 608 | 539 | 558 | 580 | 7885 | 11.3% | 6553 | 16.0% |
| male | 88 | 89 | 94 | 101 | 93 | 98 | 112 | 113 | 132 | 136 | 195 | 451 | 511 | 482 | 373 | 366 | 332 | 276 | 287 | 279 | 4329 | 6.2% | 3552 | 8.7% |
| female | 76 | 69 | 57 | 67 | 77 | 73 | 89 | 87 | 129 | 132 | 171 | 268 | 409 | 403 | 348 | 291 | 276 | 263 | 271 | 301 | 3556 | 5.1% | 3001 | 7.3% |
| Native Am. | 4 | 10 | 13 | 17 | 11 | 6 | 7 | 4 | 10 | 13 | 7 | 16 | 15 | 20 | 7 | 12 | 20 | 17 | 15 | 12 | 224 | 0.3% | 141 | 0.3% |
| male | 3 | 7 | 4 | 11 | 7 | 4 | 4 | 3 | 6 | 8 | 5 | 11 | 10 | 11 | 4 | 6 | 10 | 10 | 8 | 6 | 132 | 0.2% | 81 | 0.2% |
| female | 1 | 3 | 9 | 6 | 4 | 2 | 3 | 1 | 4 | 5 | 2 | 5 | 5 | 9 | 3 | 6 | 10 | 7 | 7 | 6 | 92 | 0.1% | 60 | 0.1% |
| Black | 46 | 50 | 53 | 48 | 60 | 48 | 56 | 51 | 64 | 62 | 75 | 78 | 107 | 98 | 112 | 111 | 116 | 118 | 139 | 122 | 1492 | 2.1% | 1076 | 2.6% |
| male | 24 | 24 | 32 | 26 | 35 | 25 | 32 | 29 | 32 | 38 | 43 | 33 | 64 | 58 | 52 | 41 | 50 | 44 | 55 | 55 | 737 | 1.1% | 495 | 1.2% |
| female | 22 | 26 | 21 | 22 | 25 | 23 | 24 | 22 | 32 | 24 | 32 | 45 | 43 | 40 | 60 | 70 | 66 | 74 | 84 | 67 | 755 | 1.1% | 581 | 1.4% |
| Hispanic | 43 | 44 | 59 | 66 | 62 | 76 | 71 | 89 | 95 | 102 | 114 | 131 | 127 | 131 | 146 | 168 | 175 | 173 | 165 | 178 | 2037 | 2.9% | 1508 | 3.7% |
| male | 22 | 29 | 36 | 39 | 38 | 49 | 50 | 56 | 56 | 59 | 57 | 69 | 80 | 65 | 83 | 89 | 99 | 82 | 88 | 65 | 1146 | 1.6% | 777 | 1.9% |
| female | 21 | 15 | 23 | 27 | 24 | 27 | 21 | 33 | 39 | 43 | 57 | 62 | 47 | 66 | 63 | 79 | 76 | 91 | 77 | 113 | 891 | 1.3% | 731 | 1.8% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).

Astronomy

Table 14. PhDs in Astronomy

| | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 85-02 | % | 93-02 | % |
|-------------------|----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| US cit & perm res | 84 | 91 | 73 | 104 | 82 | 96 | 86 | 106 | 111 | 112 | 141 | 149 | 158 | 147 | 117 | 139 | 123 | 109 | 2028 | 100% | 1306 | 100% |
| male | 75 | 84 | 64 | 90 | 69 | 78 | 79 | 91 | 88 | 91 | 116 | 114 | 132 | 120 | 91 | 104 | 94 | 87 | 1667 | 82.2% | 1037 | 79.4% |
| female | 9 | 7 | 9 | 14 | 13 | 18 | 7 | 15 | 23 | 21 | 25 | 35 | 26 | 27 | 26 | 35 | 29 | 22 | 361 | 17.8% | 269 | 20.6% |
| White | 77 | 79 | 69 | 93 | 74 | 86 | 83 | 95 | 100 | 97 | 111 | 131 | 132 | 120 | 109 | 115 | 103 | 87 | 1761 | 90.1% | 1105 | 88.0% |
| male | 69 | 76 | 60 | 81 | 63 | 70 | 77 | 84 | 79 | 78 | 92 | 101 | 110 | 96 | 86 | 89 | 76 | 69 | 1456 | 74.5% | 876 | 69.8% |
| female | 8 | 3 | 9 | 12 | 11 | 16 | 6 | 11 | 21 | 19 | 19 | 30 | 22 | 24 | 23 | 26 | 27 | 18 | 305 | 15.6% | 229 | 18.2% |
| Asians | 2 | 6 | 1 | 5 | 2 | 5 | 0 | 4 | 3 | 10 | 22 | 12 | 8 | 13 | 3 | 13 | 6 | 13 | 128 | 6.5% | 103 | 8.2% |
| male | 2 | 4 | 1 | 4 | 0 | 3 | 0 | 2 | 1 | 9 | 18 | 8 | 7 | 10 | 3 | 9 | 6 | 12 | 99 | 5.1% | 83 | 6.6% |
| female | 0 | 2 | 0 | 1 | 2 | 2 | 0 | 2 | 2 | 1 | 4 | 4 | 1 | 3 | 0 | 4 | 0 | 1 | 29 | 1.5% | 20 | 1.6% |
| Native Am. | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 8 | 0.4% | 6 | 0.5% |
| male | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 0.3% | 4 | 0.3% |
| female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0.1% | 2 | 0.2% |
| Black | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 2 | 1 | 2 | 1 | 1 | 1 | 15 | 0.8% | 11 | 0.9% |
| male | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 9 | 0.5% | 6 | 0.5% |
| female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 6 | 0.3% | 5 | 0.4% |
| Hispanic | 0 | 2 | 0 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 4 | 2 | 3 | 2 | 1 | 3 | 7 | 4 | 43 | 2.2% | 30 | 2.4% |
| male | 0 | 1 | 0 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 6 | 3 | 34 | 1.7% | 23 | 1.8% |
| female | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 9 | 0.5% | 7 | 0.6% |

Data source: Survey of Earned Doctorates (NSF/NIH/USED/NEH/USDA/NASA).