## Women who are underrepresented in engineering

## Smaller numbers.

In 2016, of 41,355 US citizen/perm. resident women enrolled in graduate programs in engineering in the US:

> Hispanic/Latino: 1780 (4.3 \%)
> African-American: 1069 (2.6\%)
> American Indian/Alaska Native: 71 (.17\%)
> Native Hawaiian: 24 (.06\%)

Women from Underrepresented Minority Groups COMBINED, only:

## 7.1 <br> \%

## Need Faculty Diversity

TABLE 925. Sclence, engineering, and health doctrate holders employed in universites and 4-year colleges, by broad occupaton, sex, race, efricity, and tacuity rank: 2013

| Occupaton, sex, race, and ethricity | Total | Protessor | Associate protessor | Assistant protessor | Oher faculty | Rank not applicable |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Engineer | 27,700 | 10,600 | 5,800 | 5,700 | 1,300 | 4,300 |
| Female | 4,300 | 800 | 1,100 | 1,300 | 300 | 800 |
| Whide | 2,400 | 600 | 600 | 700 | 200 | 300 |
| Asian | 1.400 | 100 | 300 | 500 | D | 400 |
| Black | 100 | D | D | 100 | D | D |
| Hspanica | 300 | D | D | 100 | D | 100 |
| American Indian or Alaska Nafve | D | D | D | D | D | D |
| Naflye Hew aian or Oher Pacific silander | D | D | D | D | D | D |
| More than one race ${ }^{\text {a }}$ | D | D | D | D | D | D |
| Male | 23,400 | 9,800 | 4,700 | 4,400 | 1,000 | 3,500 |
| Whide | 14,800 | 6,900 | 3,300 | 2,100 | 700 | 1,700 |
| Asian | 6,700 | 2,200 | 1,100 | 1,900 | 200 | 1,400 |
| Black | 700 | 200 | 200 | 100 | D | 100 |
| Hspanica | 1,000 | 400 | 200 | 200 | D | 200 |
| American Indian or Alaska Nafive | D | D | D | D | D | D |
| Natve Haw aian or Other Pacific slander | D | D | D | D | D | D |
| More than one race ${ }^{\text {b }}$ | 200 | D | D | D | D | D |

[^0]Women Graduate Students in Aerospace Engineering (US citizens): 15\%

| U.S. citizens and permanent residents |
| :---: |
| Not Hispanic or Latino |


| Field and sex | Total Hispanic or Latino ${ }^{\text {a }}$ |  | Americanis indian orsp Alaska Native | Asian Black or African American |  | Native Hawaiian Ster Other Pacific Islander | White More than one race |  | Unknown ethnicity Espand race | Temporary visa holders |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All S\&E graduate students | 601,883 | 35,132 | 2,112 | 33,745 | 30,482 | 902 | 245,103 | 9,335 | 25,701 | 219,371 |
| Science | 437,395 | 28,605 | 1,826 | 24,039 | 26,768 | 784 | 198,185 | 7,697 | 20,595 | 128,896 |
| Engineering | 164,488 | 6,527 | 286 | 9,706 | 3,714 | 118 | 46,918 | 1,638 | 5,106 | 90,475 |
| Aerospace engineering | 5,116 | 291 | 10 | 340 | 69 | 6 | 2,379 | 79 | 215 | 1,727 |
| Female | 253,493 | 17,930 | 1,121 | 15,008 | 17,645 | 454 | 109,713 | 4,816 | 11,720 | 75,086 |
| Science | 213,803 | 16,245 | 1,049 | 12,414 | 16,549 | 426 | 99,627 | 4,376 | 10,627 | 52,490 |
| Engineering | 39,690 | 1,685 | 72 | 2,594 | 1,096 | 28 | 10,086 | 440 | 1,093 | 22,596 |
| Aerospace engineering | 775 | 55 | 2 | 62 | 13 | 2 | 324 | 11 | 29 | 277 |
| Male | 348,390 | 17,202 | 991 | 18,737 | 12,837 | 448 | 135,390 | 4,519 | 13,981 | 144,285 |
| Science | 223,592 | 12,360 | 777 | 11,625 | 10,219 | 358 | 98,558 | 3,321 | 9,968 | 76,406 |
| Engineering | 124,798 | 4,842 | 214 | 7,112 | 2,618 | 90 | 36,832 | 1,198 | 4,013 | 67,879 |
| Aerospace engineering | 4,341 | 236 | 8 | 278 | 56 | 4 | 2,055 | 68 | 186 | 1,450 |

 determined to be ineligible.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2014.

## Recommendations

Colleges \& Universities
Increase women STEM faculty

Families and Primary Schools

## "Supply is low"

URM Women Graduate Students in Aerospace Engineering (U.S.)

Invite girls and women to engage in STEM activities and careers

Employers
Alter attitudes/policies to support lives of women within careers


[^0]:    * $=$ value $<50 . \mathrm{D}=$ suppressed to avoid disclosure of confidenfal information. $\mathrm{S}=$ suppressed for reliabilty; coefficient of variaton exceeds publication standards. @Renetta_Tull \#ThinkBigDiversity

