



GREAT
Minds
in STEM

ASEE-Engineering Deans Institute

**Increasing the Diversity of the Engineering Pipeline
Broadening the Participation of Hispanic
Students in the STEM Pipeline**

Palm Springs, CA

April 11, 2011

Ray Mellado, Chair & CEO, Great Minds in STEM™



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Top 11 States by Number of Hispanics Under 18

	State Population	Hispanic or Latino	Not Hispanic or Latino	Total Under 18	Total Under 18 Hispanic or Latino	Total Under 18 Non-Hispanic or Latino
California	37.2M	14M	23.2 M	9.2M	4.7M	4.5M
Texas	25.1 M	9.4M	15.6M	6.8M	3.3M	3.5M
Florida	18.8M	4.2M	14.5M	4M	1.1M	2.9M
New York	19.3M	3.4M	15.9M	4.3M	972,522	3.3M
Illinois	12.9M	2M	10.8M	3.1M	723,181	2.4M
Arizona	6.3M	1.9M	4.5M	1.6M	703,946	925,068
New Jersey	8.8M	1.5M	7.2M	2M	461,001	1.6M
Colorado	5M	1M	3.9M	1.2M	374,225	851,384
Georgia	9.6M	853,689	8.8M	2.5M	314,687	2.1M
North Carolina	9.5M	800,120	8.7M	2.2M	307,790	1.9M
New Mexico	2.0M	953,403	1.1M	518,672	302,077	216,595

Source: 2010 U.S. Census Bureau

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HSIs with ABET accreditation in Engineering

	4-year Pub/Prv HSIs	ABET Engineering Accredited HSIs
California	25	7
Texas	21	6
Florida	9	1
New York	9	1
Illinois	3	0
Arizona	3	0
New Jersey	2	0
Colorado	1	0
Georgia	0	0
North Carolina	0	0
New Mexico	9	2

HSIs with ABET accreditation in Engineering (EAC) in the 11 states with the highest number of Hispanics under the age of 18

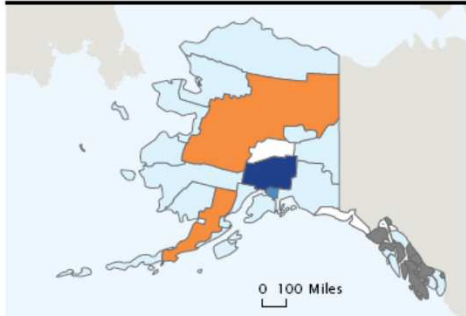
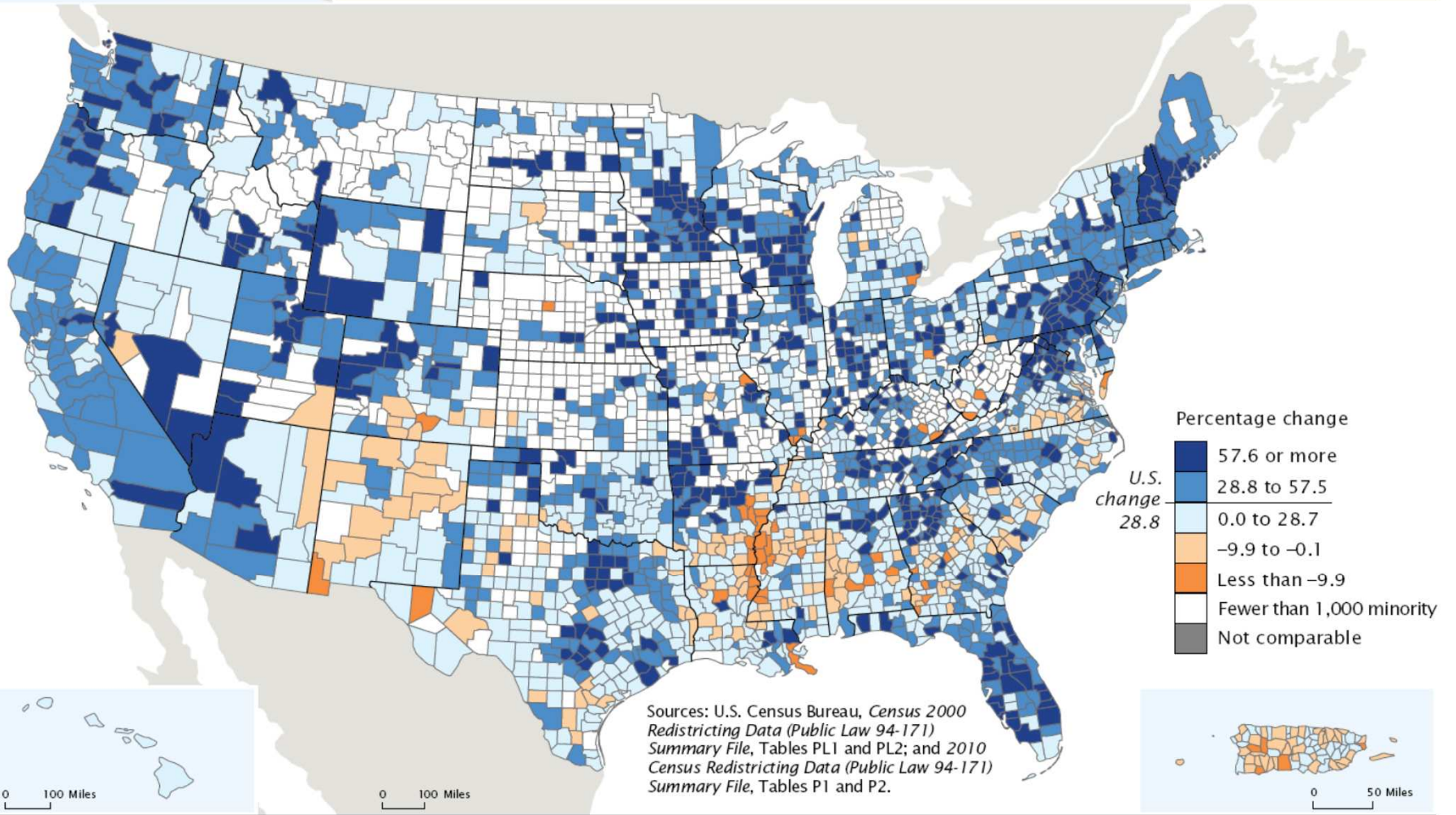


Figure 5.

Percentage Change in Minority Population by County: 2000 to 2010

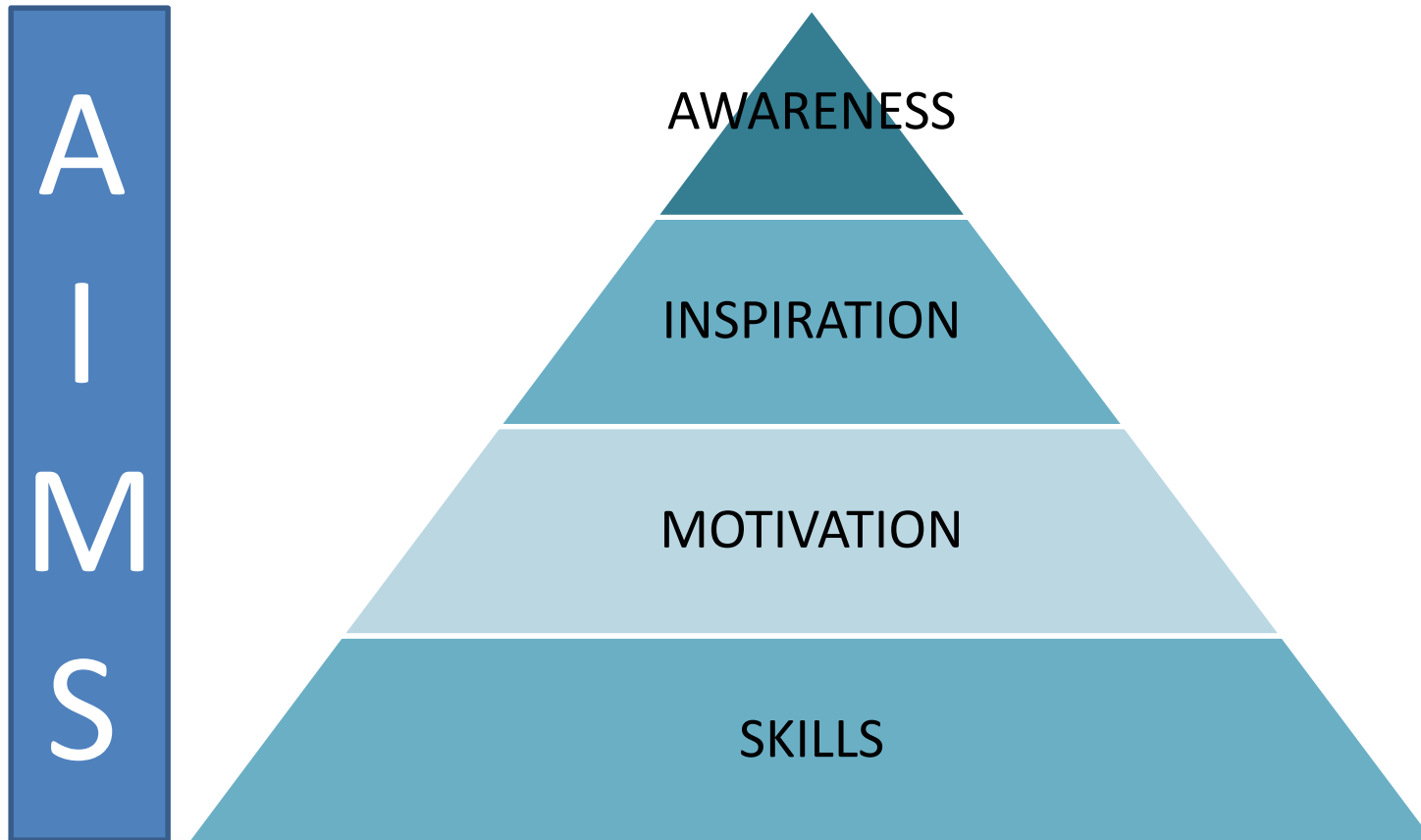
(Counties with a minority population of at least 1,000 are included in the map. Minority refers to people who reported their ethnicity and race as something other than non-Hispanic White alone in the decennial census. For information on confidentiality protection, nonsampling error, and definitions, see www.census.gov/prod/cen2010/doc/pl94-171.pdf)





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GMiS Approach to Education Programs





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STEM Pipeline

K-12 Education Students

Higher Education Students

STEM Professionals



Events for :
Students
Parents
Teachers

Systemic Long Term
Community Program for:
Students
Parents
Teachers
Community



Exposure to
STEM
Professionals



College
Scholarships for
H.S. Students



Captains
Role Models



Captains
Role Models



Recognition
Networking
Career Fair
Seminars



Teaming Experience
Exposure to STEM
Professionals

Technical Poster Competition
Protégé Mentor Program



Speakers
Role Models



Speakers
Role Models
Judges



Recognition
Networking
Career Fair
Seminars



Donors



Coaches
Role Models

Judges
Protégé Mentor Program