



Industry Perspective on Workforce Needs

Gregory Sauter, P.E., Executive Vice President and Chief Corporate Officer
AECOM Technology Corporation

Twitter: @AECOM
Email: Gregory.Sauter@aecom.com

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OPPORTUNITIES

ASCE Scorecard on state of US Infrastructure



OPPORTUNITIES -

- The solutions of the past will not be sufficient for the challenges of the future:
 - We need new ways to bring down the costs of engineering and design
 - We need to find new ways to deliver the infrastructure demands of tomorrow more efficiently
 - We need the next generation of engineer not only to leverage technology but transform it to drive efficiency and effectiveness
 - We need innovative thinkers, to move beyond best practices, to lead technological transformation.



Pike and Allen Streets Center Mall, New York, USA



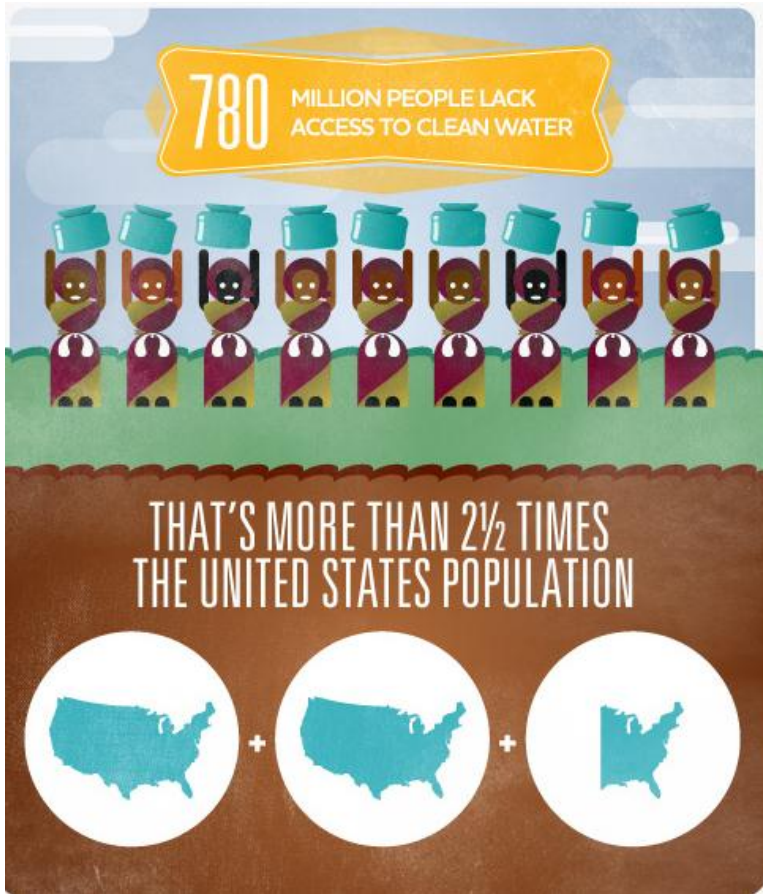
Presidio Parkway Project, San Francisco, California, USA

CHALLENGES - It is a Global Talent Pool

- Research conducted at the National Science Foundations (NSF) found that master's degrees awarded in Science & Engineering (S&E) fields increased from about 100,000 in 2000 to about 151,000 in 2011.
- According to the Indian trade association NASSCOM, almost 800,000 students completed technology or engineering graduate programs in 2010 in India.
- In 2011, foreign students in the U.S. earned 56% of all engineering doctorates.
- In 2010, more than 5.5 million first university degrees were awarded in S&E worldwide. Students in China earned about 24%,



THE OTHER 4+ BILLION CLIENTS



3.4 MILLION PEOPLE

	DIE EACH YEAR FROM A WATER RELATED DISEASE.	 LOS ANGELES
THAT IS ALMOST THE ENTIRE CITY OF LOS ANGELES.		

IDEAL TRAITS OF THE FUTURE ENGINEER

- Ethically Grounded
- Service Mentality (engineers serve the public and humanity)
- Takes a Collaborative Multidisciplinary approach
- Self Starters but appreciative of experience
- Global in Thinking
- Cultural Dexterity
- Mobile and willing to travel globally
- Understands what the challenges of the 90% are
- Good Communicator
- Team Player

OPPORTUNITIES

- Urbanization
- Technology
- Sustainability
- Resilience
- Climate Change
- Adaptation



Sutong Bridge, China



Solar Farms, United Kingdom



Camp Lemonier, Djibouti



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