

ENGINEERING EMERGENCY

African Americans are losing ground in engineering, one of the nation's most rewarding and important careers. We cannot afford to squander their potential.

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CHANGE THE EQUATION™

ENGINEERING PAYS OFF

\$79,000

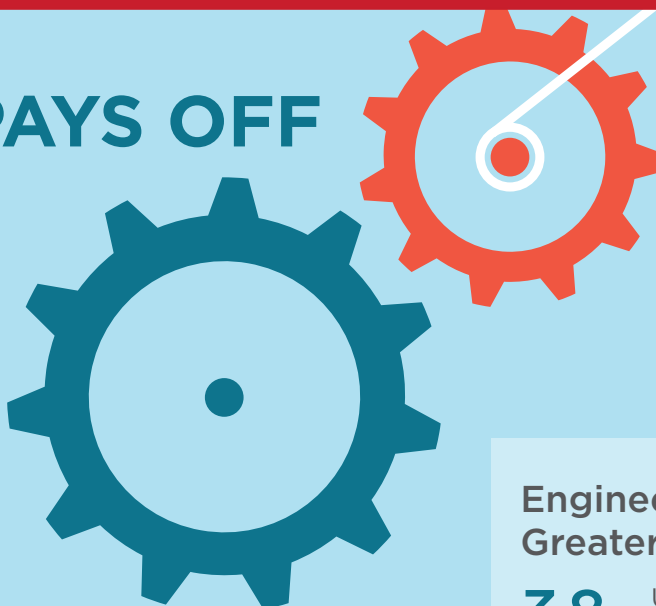
annual mean wage for Engineering

(Engineering occupations includes all engineering and architecture occupations, including Engineering Technical occupations, which most often require less than a bachelor's degree)

\$45,790

annual mean wage for all occupations

Source: Bureau of Labor Statistics, 2012



Engineers Enjoy Greater Security

3.8% Unemployment rate for engineers

7.0% Unemployment rate for all occupations

Source: Bureau of Labor Statistics, 2014

UNTAPPED POTENTIAL



By 2022, 9 in 10 new engineering jobs will require at least a Bachelor's degree

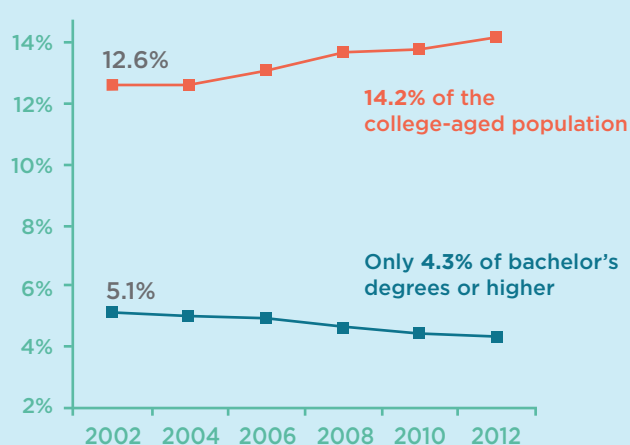
Source: Bureau of Labor Statistics, 2013

African Americans earn a small share of engineering bachelor's or higher degrees



Source: Change the Equation analysis of U.S. Department of Education data, 2014

African Americans have lost ground in engineering degrees



Source: Change the Equation analysis of U.S. Department of Education data, 2014

OPPORTUNITY LOST



35% of African American students attend high schools that did not offer calculus in 2010



20% attend high schools that did not offer physics in 2010

Source: Change the Equation Vital Signs, 2012

ONLY 3 in 10 African American students who are likely to succeed in AP math—a gateway to careers in engineering—actually take the course



Lack confidence

Lack access

Source: College Board, 2013