









Presentation Overview

The demand for engineers and why you should care

Introducing the 50K Coalition

50K: The Time is Now

Who We Are

Our Goal

What Makes Us Unique?

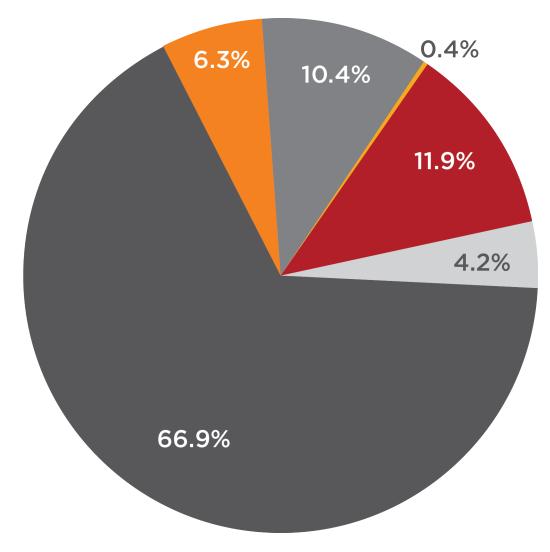
- Our Leadership
- Our Members
- Our Approach & Roadmap
- Coalition Member Commitment
 - Our Funders

Join The Movement!



Demand for engineers up but numbers of minorities and women engineers are flat or down

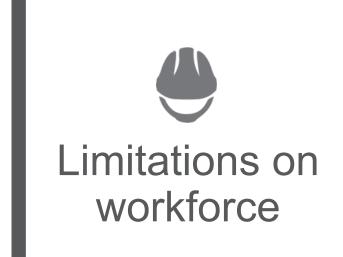
- Hispanic or Latino
- American Indian or Alaska Native, non-Hispanic
- Asian or Pacific Islander, non-Hispanic
- Black, non-Hispanic
- White, non-Hispanic
- Other/Unknown





The Consequences are Great









We Must Dramatically CHANGE THE FACE OF ENGINEERING in America



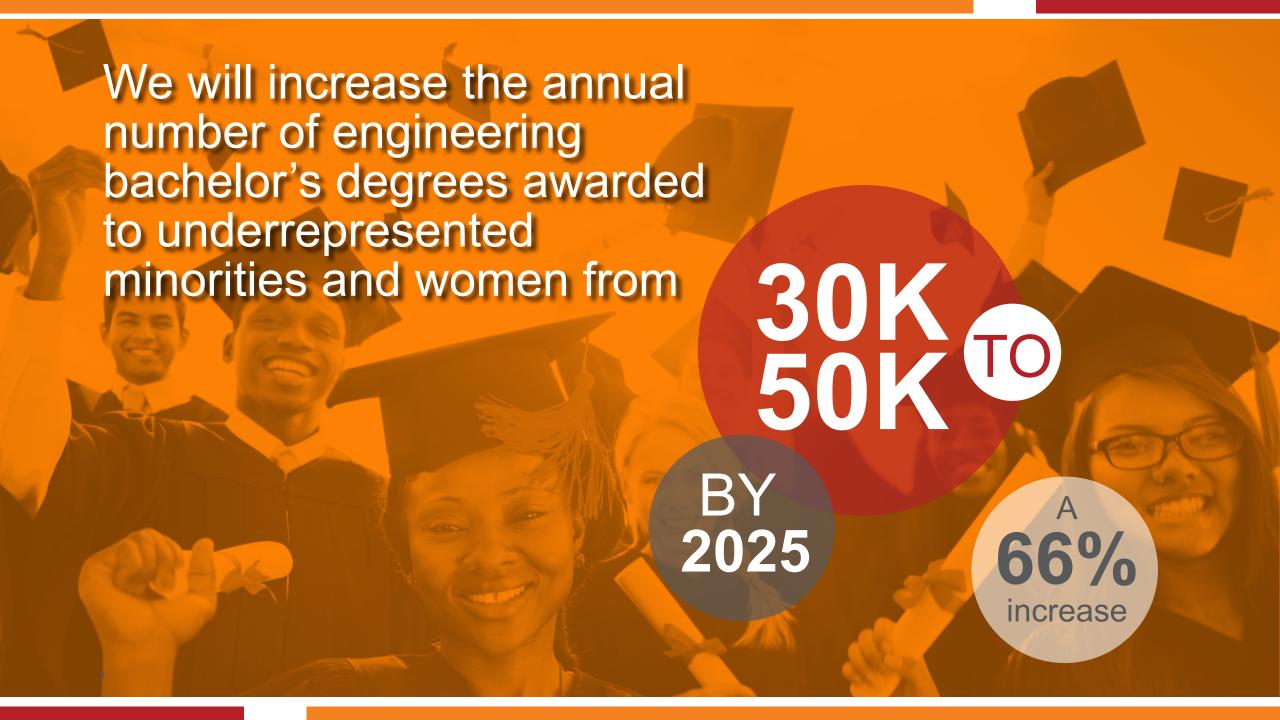


INTRODUCING:



A disciplined, large-scale collective impact coalition of diverse engineering community leaders





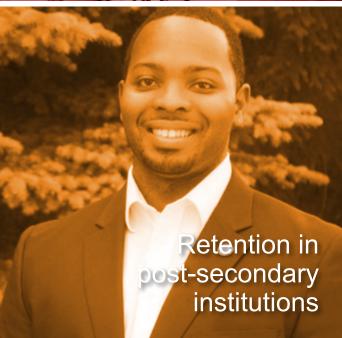
50K: The Time is Now

Interventions needed at all educational levels to increase number of diverse engineers:









What Makes This MOVEMENT UNIQUE?







50,000 DIVERSE ENGINEERS GRADUATING ANNUALLY BY 2025

The 50K Coalition Leadership Circle



Sarah EchoHawk CEO, AISES



Karl W. Reid, Ed.D. Executive Director, NSBE



Barry Cordero Acting CEO, SHPE



Karen Horting, CAE Executive Director & CEO, SWE









OUR: Members & Supporters

OUR MEMBERS

- Engineering Professional Societies
- Leading Schools of Engineering
- The National Academy of Engineering (NAE)
- Corporations

OUR SUPPORTERS

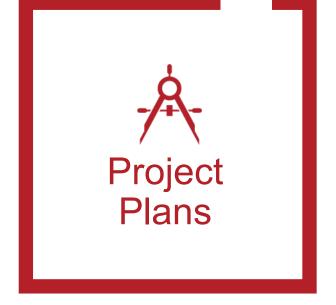
- The United Engineering Foundation (UEF)
- The National Science Foundation (NSF)
- The Shell Oil Company
- Advisory Board
 - Northrop Grumman (ret), AAES, NACME, ERCA, Chevron & MacArthur Fellow (Collective Impact)



An Approach Designed For Change







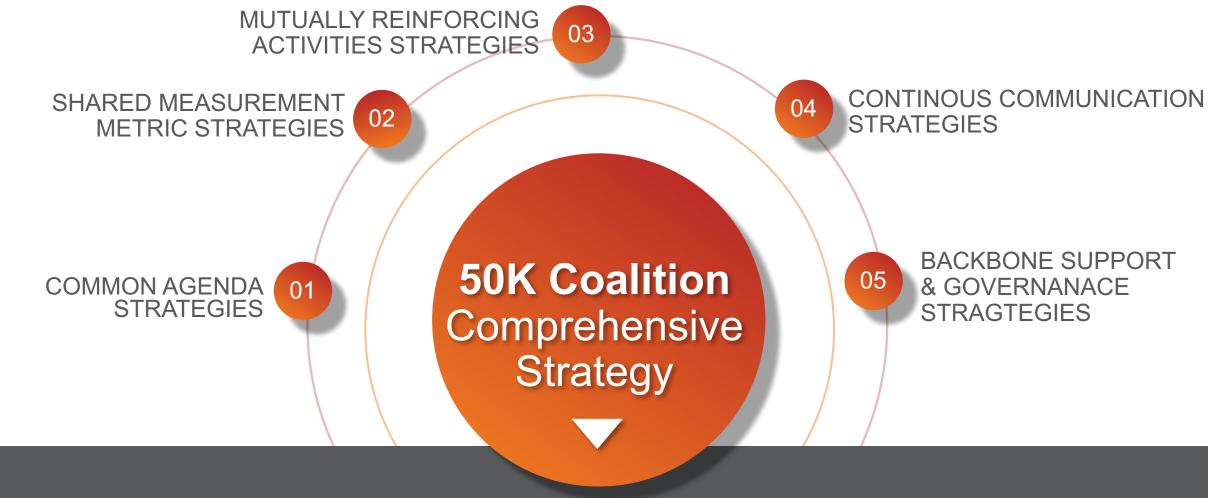




TEAMWORK: How We'll Reach 50K







Graduate annually 50,000 female, black, Hispanic and Native American engineers by 2025.

STRATEGIES TO HOLD OURSELVES ACCOUNTABLE AND ALIGNED TOWARDS THE 50K GOAL





We Can Make **Engineering** More **Diverse**

COALITION COMMON AGENDA ITEMS

Undergraduate support and retention

Public awareness/marketing

K-12 support

Community college linkages

Culture and climate







Coalition Member Action Plans

Each organization present at the workshop was asked to put together a project plan for any initiative (current or proposed) that supported the collective impact goal of graduating 50,000 female, Hispanic, Black and Native American engineers annually by 2025. All were asked to follow the Collective **Project Planning Template** shown here:

Common
Agenda
Item

Reinforcing
Activities

Collective Impact Initiative

Resources

Required

Outcomes/ Goals

> Start Date

Shared
Measurement
Metrics

End Date









Retention and Support Services

This common agenda item involves Intentional support of women and underrepresented engineering students with a particular, though non-exclusive focus on the first-twosecond year and transfer students. Activities may include mentoring, early-alert services, summer bridge and first-year programs. Data-driven efforts to track, identify and mitigate factors that contribute to achievement gaps also fall into this cluster. The overall focus here is on supporting students with less emphasis on "weeding out."





Where We Are Today:

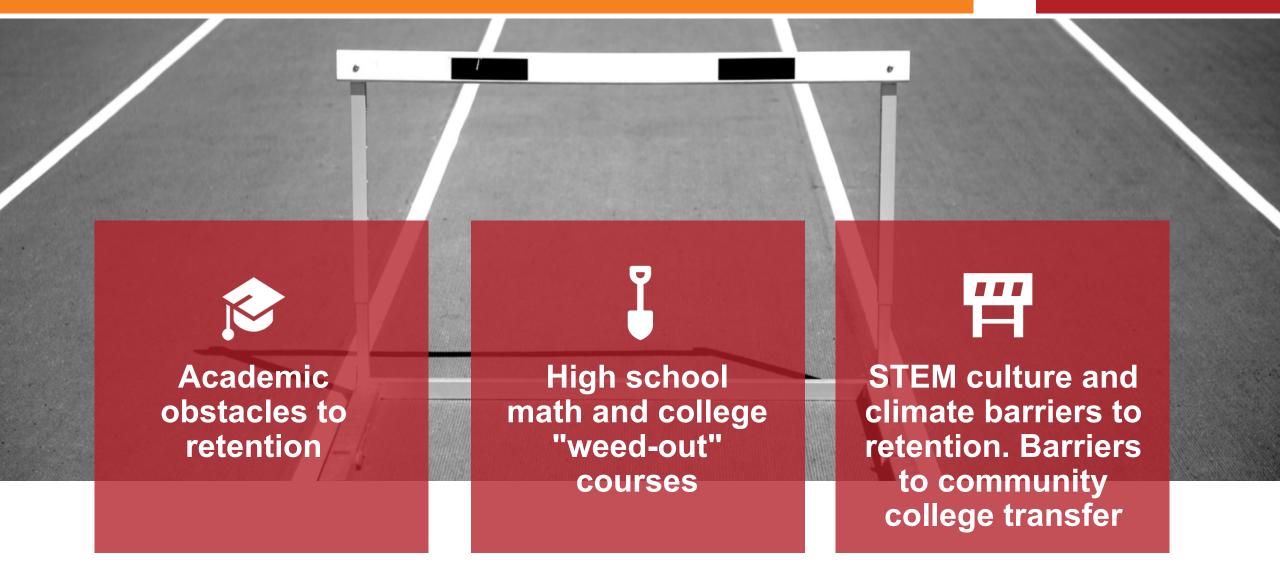
Standing Up the Backbone Organization

- Successful Collective Impact requires the setting up of an infrastructure and effective decision-making process that will become the backbone organization with a focus on data management, communications and dissemination
- This includes
 - Capturing and consolidating project plans;
 - Disseminating best practices;
 - Reporting out project milestones;
 - Sourcing funding opportunities and distributing grants;
 - Planning and hosting virtual and in-person convenings; and
 - Producing an annual Engineering Scorecard.
- Until the formal backbone is established, the 50K Coalition Leadership Circle will deputize members of the founding organizations to fulfill a subset of these functions until funding is available to stand up a Backbone organization

Together,
We'll Reach
the Coalition's
AMBITIOUS AND
ATTAINABLE
Goals

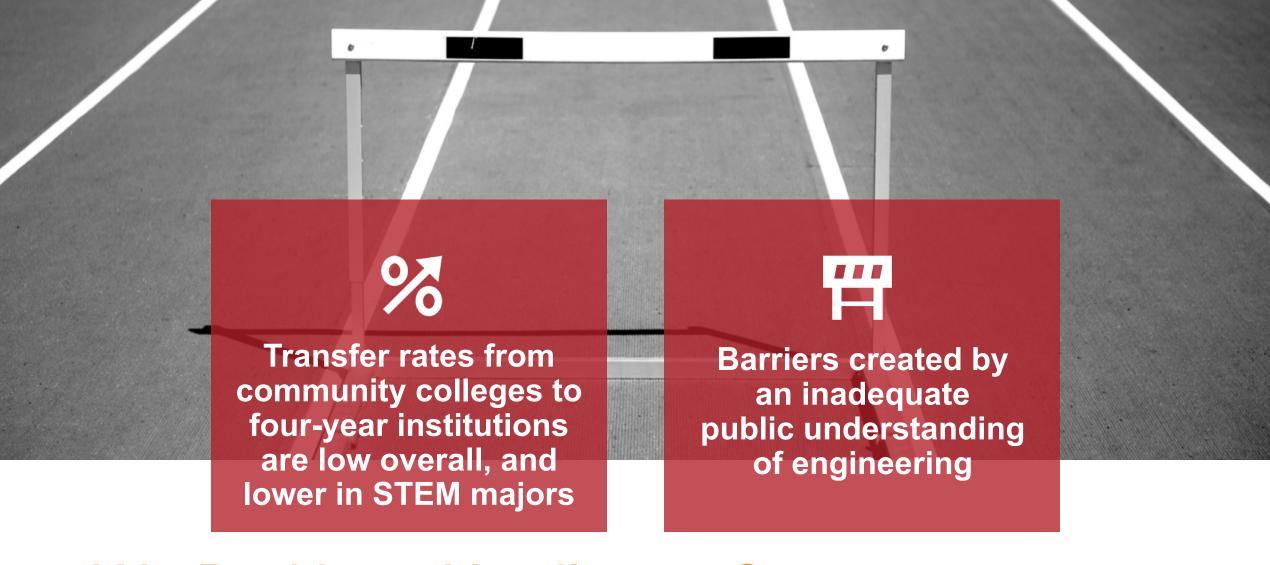






We Do Have Hurdles to Overcome





We Do Have Hurdles to Overcome









50K: The Time is Now

- Engineering community is slowly diversifying over time, though at a much slower rate than the overall population
- The Grand Challenges for Engineering demand unprecedented growth
- Requires a collective, measured and more inclusive US engineering community approach



JOIN THE MOVEMENT!

JOIN

Join the 50K Coalition

COMMIT

Submit An Action Plan

SPONSOR

Become a 50K
Backbone
Supporter

SPREAD

Spread the news!

ATTEND

50K Coalition Annual Convening

April 26-27 2017 Washington, DC



We will increase the annual number of engineering bachelor's degrees awarded to underrepresented minorities and women from

30K © 50K

BY **2025**

A 66% increase

Your 50K Points of Contact:



Constance Thompson
PROJECT MANAGER
cthompson@nsbe.org
Direct Line: 703-332-9537



Gabriel Najera

CO PROJECT MANAGER

gnajera@najeraconsulting.com

Direct Line: 630-408-5158





50,000 DIVERSE ENGINEERS GRADUATING ANNUALLY BY 2025









