

Making Diversity, Equity, and Inclusion in STEMM the Norm

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TRANSFORMING A SYSTEM THAT IS WORKING THE WAY IT WAS DESIGNED TO WORK?



YOUR VISION

What is the vision for your institution?

Through a DEI lens, how do you see your institution today?

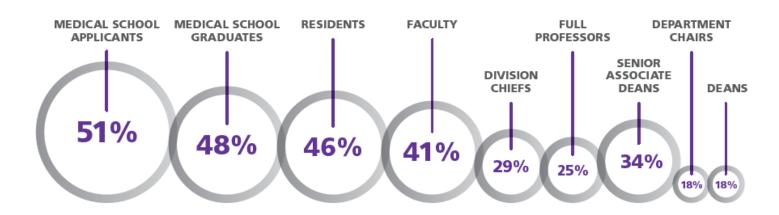
Where do you see your institution 5, 10, 15 years from now?



WHY DO WE NEED TO SEE SYSTEMS CHANGE?



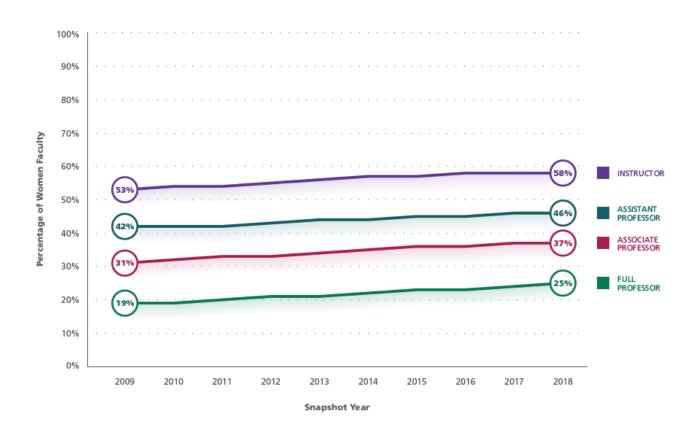
REPRESENTATION OF WOMEN IN ACADEMIC MEDICINE 2018-2019



Source: AAMC. 2020. The State of Women in Academic Medicine, 2018-2019.



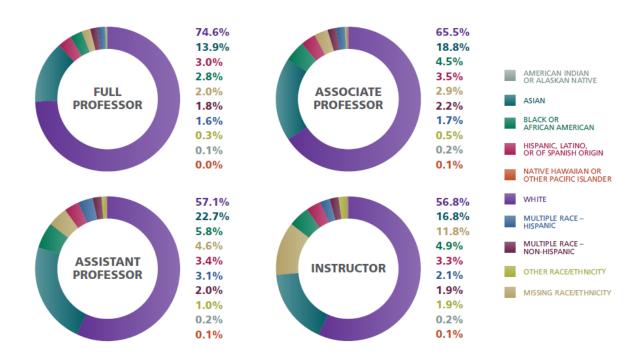
Full-time women faculty as a percentage of each rank, 2009-2018



Source: AAMC. 2020. State of Academic Women in Academic Medicine.



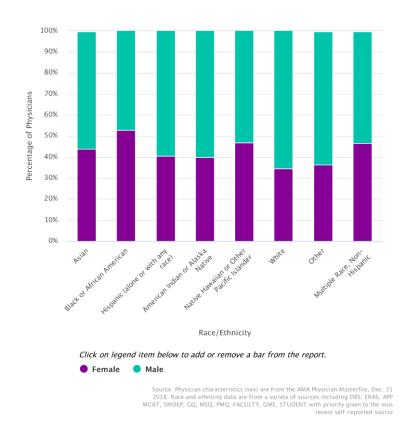
Full-Time Women Faculty by Rank and Race/Ethnicity, 2018



Source: AAMC. 2020. The State of Women in Academic Medicine, 2018-2019.

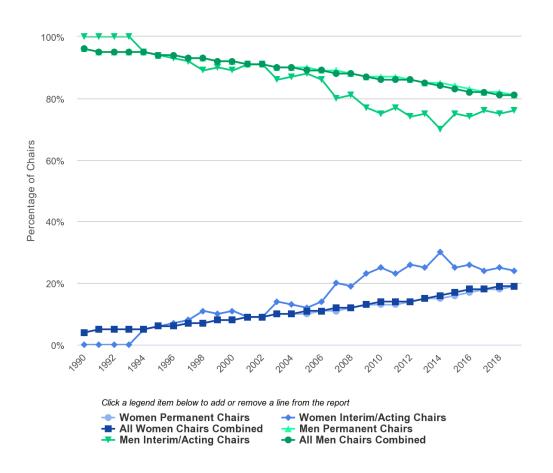


Physicians by sex and race/ethnicity, 2018





U.S. Medical School Department Chairs by Chair Type and Sex







Barriers and Opportunities for 2-Year and 4-Year STEM Degrees

SYSTEMIC CHANGE TO SUPPORT STUDENTS' DIVERSE PATHWAYS

* X
The National Academies of SCIENCE'S - ENGINEERING - MEDICINE

The National Academies of SCIENCES • ENGINEERING • MEDICINE

CONSENSUS STUDY REPORT

The National Academies of SCIENCES • ENGINEERING • MEDICINE

CONSENSUS STUDY REPORT

Sexual Harassment

of Women

Climate, Culture, and Consequences in Academic Sciences, Engineering, and Medicine The National Academies of SCIENCES • ENGINEERING • MEDICINE

CONSENSUS STUDY REPORT

Promising Practices for Addressing the Underrepresentation of Women in Science, Engineering, and Medicine

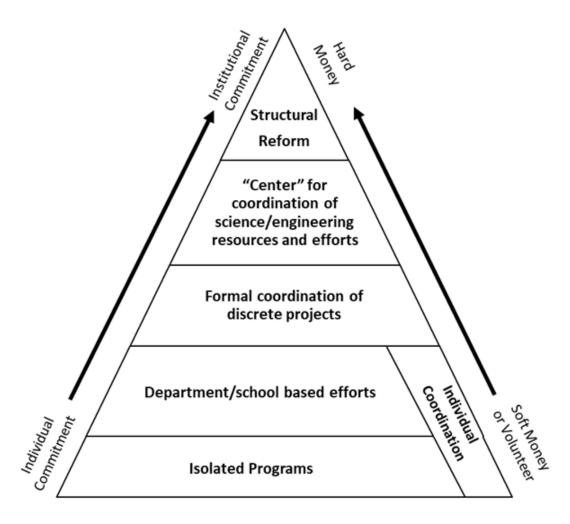
OPENING DOORS





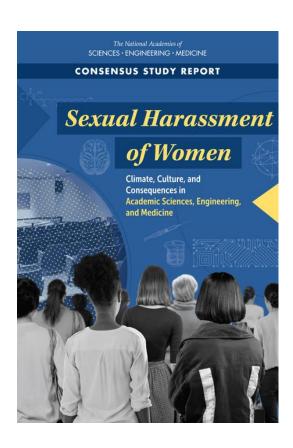
Model for the evolution of intervention programs

Why hasn't the needle moved?





A call for systemic change



RECOMMENDATION 9: Incentivize change.

- a. Academic institutions should work to apply for awards from the emerging STEM Equity Achievement (SEA Change) program.³ Federal agencies and private foundations should encourage and support academic institutions working to achieve SEA Change awards.
- b. Accreditation bodies should consider efforts to create diverse, inclusive, and respectful environments when evaluating institutions or departments.
- c. Federal agencies should incentivize efforts to reduce sexual harassment in academia by requiring evaluations of the research environment, funding research and evaluation of training for students and faculty (including bystander intervention), supporting the development and evaluation of leadership training for faculty, and funding research on effective policies and procedures.



Equality Charters Process: Adapted Globally









Est. 2005

Est. 2015

Est. 2015

Est. 2017







Equality Challenge Unit

Est. 2019

STEMM Equity Achievement Change

SEA Change provides the scaffolding to guide and support context-specific, voluntary change within institutions that will result in systemic transformation, particularly in STEMM, in alignment with their own mission and that of AAAS



STEMM Equity Achievement Change

- Increased access to and inclusion in STEMM education for traditionally underrepresented groups
- A shift in culture that results in a more diverse student population and workforce with higher retention rates
- Operates within the context of the United States
- Intersectional identities must be considered



STEMM Equity Achievement Change

• For institutions:

- An opportunity to stand up as a member of a global higher education community committed to shifting the culture of academia to one that is truly inclusive, equitable, and diverse
- An opportunity to increase excellence in research and education
- A public commitment to a set of Principles











Faculty

Grad Students • Undergrads

Policy, practices, procedures, climate across an institution



Policy, practices, procedures, climate within a department

Faculty
Grad Students • Undergrads

	Bronze	Silver	Gold
A thorough self-assessment using qualitative and quantitative analyses	V	V	V
Identifies key issues	V	\checkmark	V
Actions in place to address key issues and carry the institution forward	V	V	V
Demonstrates impact of previous activity and expands action plan to continue progress		V	V
Serves as a beacon in the sector and beyond			











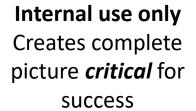
elf-assessment

Use detailed framework as guide

Gather info: what's missing?

Answer as many questions as possible

Should be complete but not all info needed in application



Narrative

Tell institution's story, provide context

Make clear the understanding gained from self-assessment

Discuss what's included in action plan, what isn't, and why

ction Plan

What are plans moving forward?

Why and how were issues prioritized?

Are actions SMART?

Do the actions reflect findings from the self-assessment?

Submitted for peer-review

Specific, Measurable, Achievable, Relevant, Time-limited – SMART!





AAMC Framework for Addressing and Eliminating Racism at the AAMC, in Academic Medicine, and Beyond



SELF-ASSESSMENT



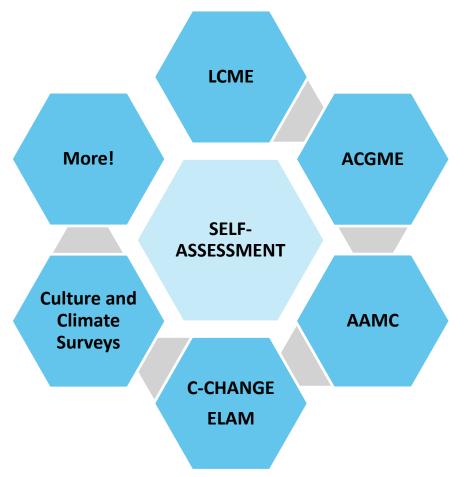
Self-assessment team



- high-level administrators;
- full professors/tenured faculty;
- early career faculty;
- institutional data experts;
- enrollment management professionals (including those involved in outreach and bridging strategies, admissions, financial aid, mentoring);
- HR representative;
- social scientist(s) or others familiar with qualitative data assessment;
- student affairs professionals;
- staff involved with diversity & inclusion efforts; and
- legal counsel



Leverage what your institution and faculty are already doing







Department of Health and Human Services - National Institutes of Health

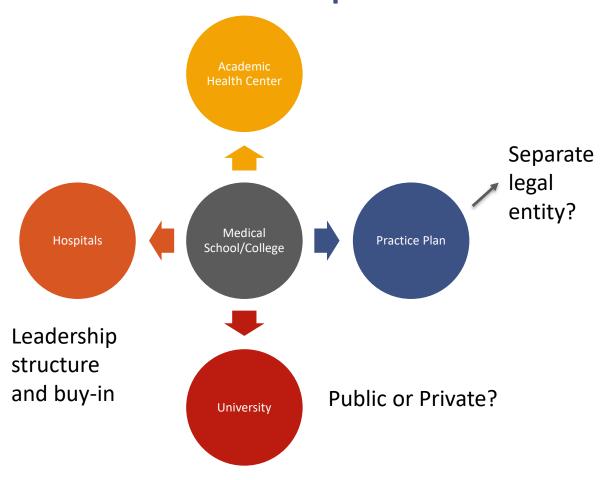
NIH Prize for Enhancing Faculty Gender Diversity

NIH Prize for Enhancing Faculty Gender Diversity in Biomedical and Behavioral Science

NIH Faculty Institutional Recruitment for Sustainable Transformation (FIRST) Program



Description of Institution and Relationships





Who are your people?

 Total number of departments, faculty, students, degrees granted

 Composition of faculty, students, postgraduates, and administrators

 Disaggregated data (3-5 years) for each category



Pipelines to Pathways



Faculty Recruitment to Hiring



Pay Equity



Faculty Review



Mentoring



Faculty Pedagogical Support



Faculty Workload



Leave policies



Family Care and Flexible Work



Promotion and Tenure



Pay Equity-Promotion and Tenure



Faculty Retention



Role Models and Diversity



Diversity in Governing Leadership

- Composition
- Appointment Process



Diversity Office/Administrator

- Dedicated office
- Alignment
- Accountability



Institutional Policies for Diversity and Inclusion

- Policy review
- Outcome
- Purpose
- Engagement
- Awareness
- Evaluation



Sexual Harassment and Assault

- Policy and Practices
- Excellence
- Transparency
- Training
- Action
- Sexual harassment and assault services
- Racial, ethnic and religious harassment services
- Academic freedom and free expression



Institutional Climate and Culture



Culture and Climate: Best Practices

- Implement a schedule for assessments
- Use multiple measures
- Disaggregate and analyze data
- Action: How are findings from climate studies shared and used? When issues are identified, how are they addressed, and are follow-up assessments done? Does the institution share the findings? If so, how? How are the effectiveness of studies reported and follow-up actions determined?

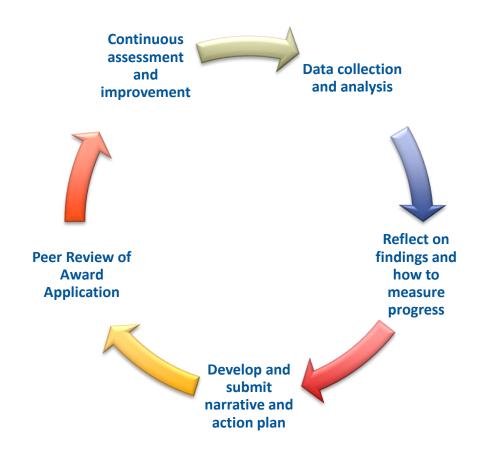


SEA Change – change the culture without doubling administrative burden

- Focus on policies, programs, practices, and culture for focal populations relevant to your institution
- Holistic self-assessment, using what you have already doing and what you have available
- Create an action plan that includes building capacity and "institutionalizing" the work
- Awards provide recognition for continuous improvement



Iterative Process for Continuous Improvement





SEA Change Biomedicine Institutional Bronze Awards pilot



- The SEA Change Biomedicine Institutional Bronze Awards Pilot will begin accepting letters of intent in spring 2021.
- The first applications will be due April 30, 2022.
- Our goal is to work with leadership of medical schools and academic health centers interested in joining the pilot to develop the SEA Change Biomedicine framework and metrics.



Upcoming event

Reckoning with Structural Racism and Sexism, COVID-19, and the Urgent Need for Diverse Leaders in Academic Medicine

Joint meeting with NASEM
Roundtable on Black Men and
Black Women in Science,
Engineering and Medicine

October 15, 2020

1:00-3:30pm EDT

https://seachange.aaas.org/events/2020/10/15/reckoning-with-structural-racism-and-sexism-covid-19-and-the-urgent-need-for-diverse-leaders-in-academic-medicine



THANK YOU!

QUESTIONS?

Email: seachange@aaas.org

Learn more: seachange.aaas.org

