

Promoting Diversity in the Professoriate: Individual and Organizational Approaches

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AGEP-NC Summer Alliance Meeting Wednesday, June 29, 2022



Outline

To talk about ways of demonstrating commitment to diversity, equity and inclusion

To review the benefits of and challenges to advancing diversity, equity and inclusion efforts

To explore recruitment, retention and advancement best practices in pursuit of inclusive excellence

To discuss individual and organizational interventions which support the success of members of underrepresented groups



Background

About the Alliance for Graduate Education and the Professoriate (AGEP)

Mission

To advance knowledge about models to improve pathways to the professoriate, and success of historically underrepresented minority (URM) graduate students, postdoctoral fellows and faculty in specific STEM disciplines and/or STEM education research fields.

About AGEP-NC

Mission

To develop, implement and study the AGEP North Carolina Alliance model for creating institutional, department-level and faculty change to promote historically underrepresented minority US citizens who are completing their STEM doctoral degrees and progressing into faculty positions.

AGEP-NC Summer Alliance Meeting Theme: "Preparing a Diverse Population of PhD Students to Move into the Professoriate"

Sources: https://agep-nc.org



Background (cont'd)

About AGEP-NC Model for Change



- 1. Shared Leadership
- 2. Senior administrative support
- 3. Robust (flexible) design
- 4. Faculty development
- 5. Visible action

Sources: https://agep-nc.org



Demonstrating Commitment to Diversity, Equity and Inclusion



Inclusive Excellence

Bolster Research,
Clinical and Patient
Outcomes, Outreach
and Engagement
Efforts, and Economic
Development

Enhance Overall Learning, Living and Working Experience

Support Retention and Success

Recruit, Train, Hire



Benefits of and Challenges to Advancing Diversity, Equity and Inclusion Efforts



Why Diversity Matters

Inclusive Excellence

Global Education, Clinical and Research Preeminence



Considers
Changing
Demographics

Broadening Scope of Inquiry: Health Disparities, Sex/Gender

Excellence, Creativity, Innovation



Multilevel Challenges That Impact Diversity, Equity and Inclusion

Local (Department, School, Unit or Group)

Senior Administration

Individual



Challenges to Advancing Diversity, Equity and Inclusion – Local

To concisely articulate and clearly communicate local commitment to, and values around diversity, equity and inclusion

To develop a single diversity, equity and inclusion strategy AND action plan that would be effective across the target population

To effectively implement, monitor and assess progress based on action plans and improving outcomes for various constituents among the population



Challenges to Advancing Diversity, Equity and Inclusion – Senior Administration

Communication

Resistance to Change

Policy Implementation

Organizational Climate and Change Management



Challenges to Advancing Diversity, Equity and Inclusion – Individual

Inherent Bias

Lack of Knowledge

Absence of Buy-in

Fear of Consequences



First, We Must Acknowledging Our Biases...

Bias – a tendency to believe that some people, ideas, etc., are better than others that usually results in treating some people unfairly

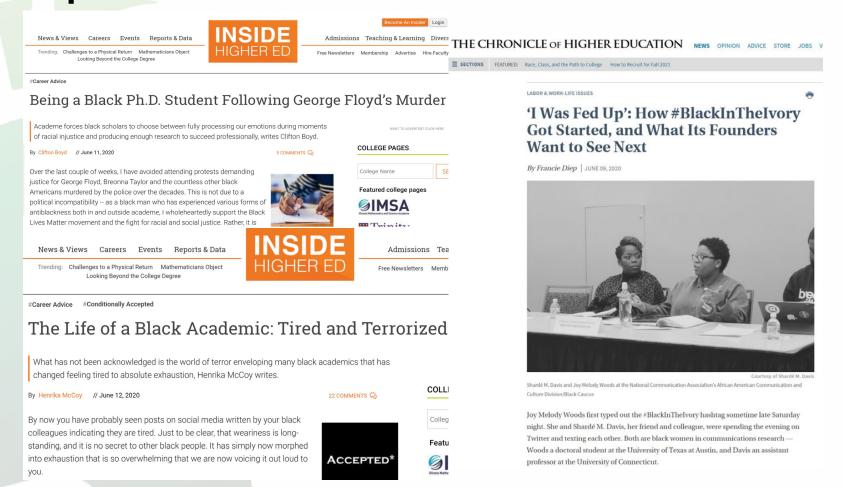
Source: Merriam-Webster's Learners Dictionary

Acknowledging our own biases is the first step toward equity.

Resource: Implicit Association Test. Project Implicit (https://implicit.harvard.edu/implicit/index.jsp)

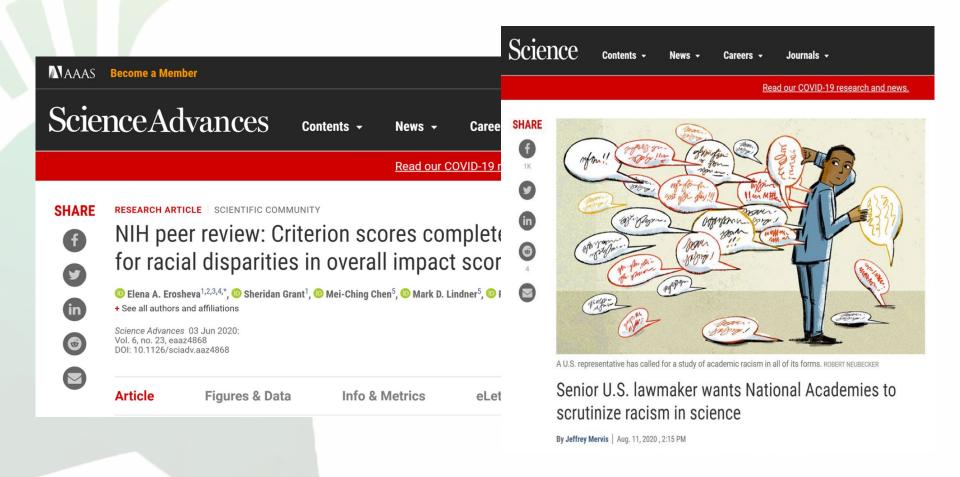


Impact on Bias on Members of Underrepresented Groups



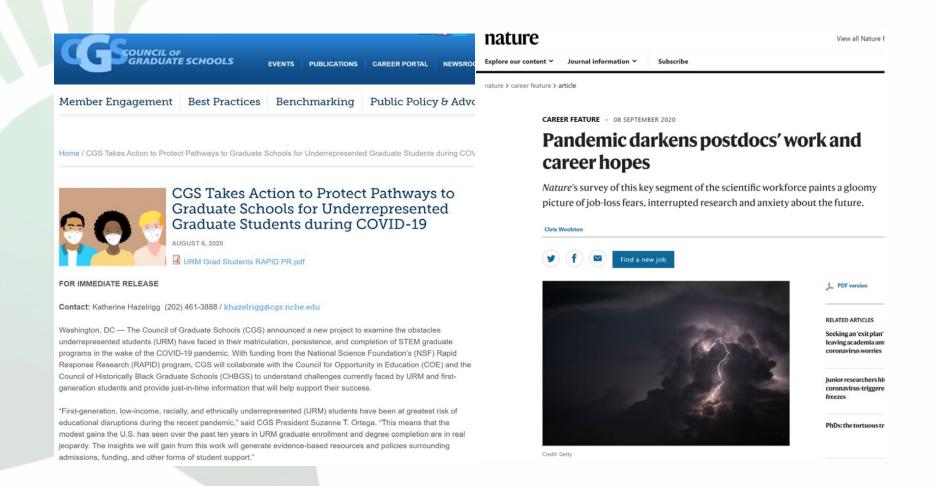


Impact on Bias on Members of Underrepresented Groups (cont'd)



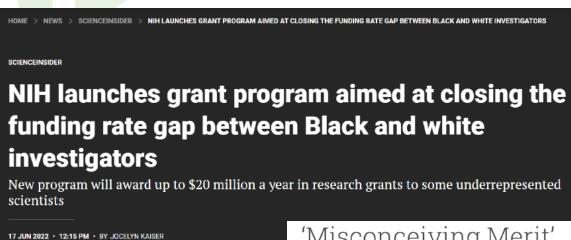


Impact on Bias on Members of Underrepresented Groups (cont'd)





Impact on Bias on Members of Underrepresented Groups (cont'd)



'Misconceiving Merit'

Authors discuss their new book on the way science discriminates against those who are not white or Asian heterosexual men.

By Scott Jaschik // June 28, 2022

Science is a meritocracy. The merit of scientists' ideas matters much more than whether a scientist is Black or white, a man or a woman, and is gay or straight. Right?

Not so fast, says a new book, Misconceiving Merit: Paradoxes of Excellence and Devotion in Academic Science and Engineering (University of Chicago Press). The book is by two scholars of work and gender. Mary Blair-Loy is professor of sociology at the University of California, San Diego. She is the





NIH Director Statement on Structural Racism

"To those individuals in the biomedical research enterprise who have endured disadvantages due to structural racism, I am truly sorry. NIH is committed to instituting new ways to support diversity, equity, and inclusion, and identifying and dismantling any policies and practices at our own agency that may harm our workforce and our science."

— Francis S. Collins, M.D., Ph.D., NIH Director, March 17, 2021



NIH UNITE Initiative

Goal

To address structural racism and promote racial equity and inclusion at NIH and within the larger biomedical research enterprise. UNITE has five committees with the following specific aims:

- U Understanding stakeholder experiences through listening and learning
- N New research on health disparities, minority health, and health equity
- I Improving the NIH culture and structure for equity, inclusion, and excellence
- T Transparency, communication, and accountability with our internal and external stakeholders
- E Extramural research ecosystem: changing policy, culture, and structure to promote workforce diversity



Recognize the Disproportionate Impact of Multiple National Crises on Members of Underrepresented Groups

- Racial Injustice and Violence
- COVID-19 (Coronavirus)
- Economic Recession
- Divisive Political Landscape

And Remain Vigilant Regarding Ongoing Challenges for Members of the Academic Community

- Violence Against Women and Sexual Misconduct
- Violence Against Sexual and Gender Minorities
- Broad Issues of Access and Support for People with Disabilities
- Broad Issues of Access to and Delivery of Mental Health Services
- Discrimination Against Non-Christian Faith Groups
- Support for International Students and Scholars



Recruitment, Retention and Advancement Best Practices in Pursuit of Inclusive Excellence

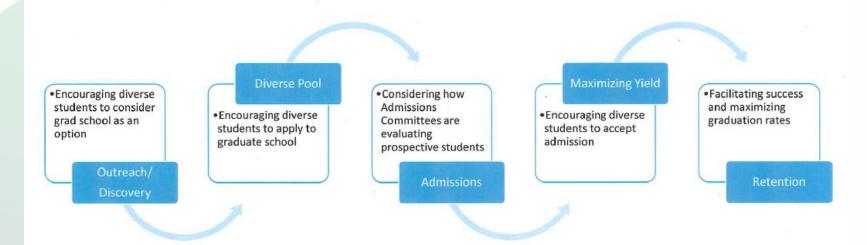


Recruitment: Students and Trainees



Recruitment Diagram

RECRUITMENT AND RETENTION OF DIVERSE GRADUATE STUDENTS

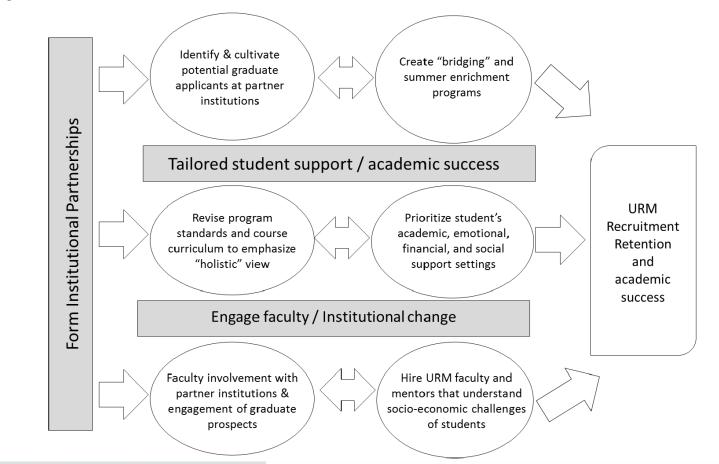


Source: Hitchcock, et al. eLife Science; 6:e32715 https://elifesciences.org/articles/32715



Recruitment: Students and Trainees (cont'd)

Figure 2. Framework for URM Recruitment, Retention, and Academic Success in the Health Professions



Source: Thompson NL, Campbell AG. Addressing the Challenge of Diversity in the Graduate Ranks: Good Practices Yield Good Outcomes. CBE Life Sci Educ. 2013;12(1):19-29.



Retention and Advancement: Students and Trainees



Retention and Advancement: Students and Trainees

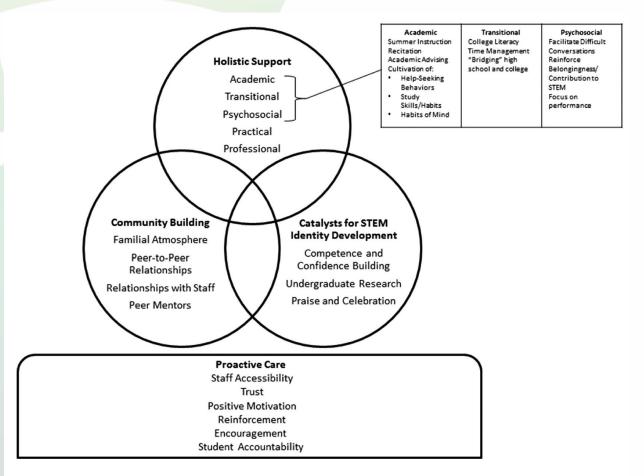


FIGURE 3. Model for programmatic impact on retention and degree attainment among underrepresented students in STEM.

Source: Lane. Beyond Academic and Social Integration: Understanding the Impact of a STEM Enrichment Program on the Retention and Degree Attainment of Underrepresented Students. CBE-Life Sciences Education. 15:ar39. Fall 2016.





FEATURE ARTICLE





POINT OF VIEW

The future of graduate and postdoctoral training in the biosciences

Abstract This article summarizes the outcomes of the second national conference on the Future of Bioscience Graduate and Postdoctoral Training. Five topics were addressed during the conference: diversity in leadership positions; mentoring; modernizing the curriculum; experiential learning; and the need for better data on trainees. The goal of the conference was to develop a consensus around these five topics and to recommend policies that can be implemented by academic and research institutions and federal funding agencies in the United States.

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Diversity and Academic Leadership: How to better increase the diversity of scientists in senior and leaderships roles

- 1. Begin leadership training early for graduate students and postdocs
- 2. Provide incentives and awards for programs that impact institutional culture which enhances diversity, equity and inclusion
- 3. Encourage change in review practices for recruitment, hiring, promotion, funding, publications and awards
- 4. Require inclusivity training for all senior administrators, faculty, staff, postdocs and graduate students
- 5. Establish major funding mechanism to prepare underrepresented postdocs for transition into successful careers

Source: Hitchcock, et al. eLife Science; 6:e32715 https://elifesciences.org/articles/32715



Individual and Organizational Interventions
Which Support the Success of Members of
Underrepresented Groups



Individual Responsibility: What You Can Do



Embrace Cultural Sensitivity

Strive to provide high-quality, effective interactions with people from diverse sociocultural backgrounds



Understand Why Cultural Sensitivity is **Important**

Unexplored or misunderstood sociocultural differences between people can lead to dissatisfaction, poor performance and outcomes

Demonstrating cultural sensitivity among all individuals is considered an important step toward the elimination of inequities in recruitment, retention and advancement



Commit to Cultural Humility

Cultural humility requires individuals to continually engage in self-reflection and self-critique as lifelong learners and reflective practitioners

Cultural humility incorporates a lifelong commitment to redressing the inherent power imbalances in relationships, and to developing mutually beneficial and nonpaternalistic partnerships with others



Understand the Significance of Intersectionality

Consider how race/ethnicity, class, income, education, ability, age, sexual orientation, immigration status, and geography shape issues of differences among individuals and how these shape lives and experiences



Acknowledge and Leverage Your Position and Power as a Leader



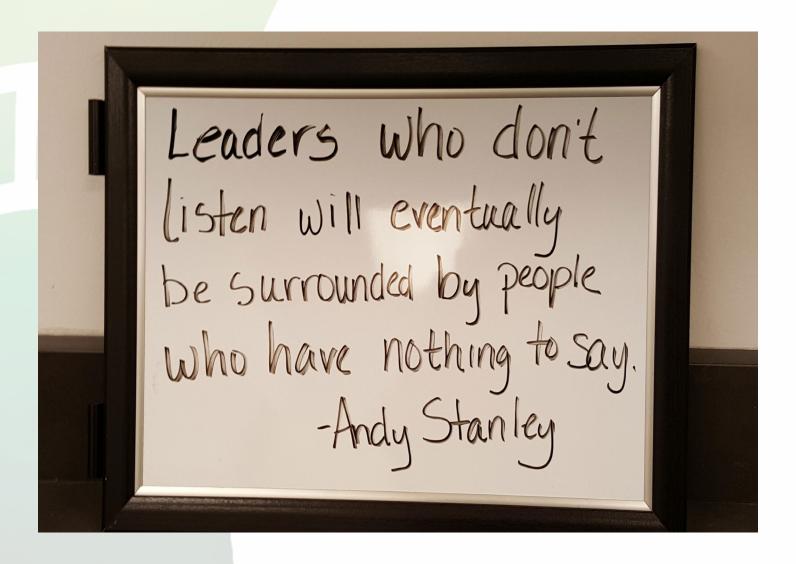


Source: The 360 Degree Leader: Developing Your Influence from Anywhere in the Organization



Top 10 Attributes of Equitable Leaders

- 1. Be informed
- 2. Be engaged
- 3. Be fair
- 4. Be objective
- 5. Be vigilant
- 6. Be optimistic
- 7. Be welcoming
- 8. Be thoughtful
- 9. Be accommodating
- 10.Be vocal



IK SERVING 15 BEROW YOU, LEADERSHIP 15 BEYOND YOU. - ANONYMOUS



Organizational Accountability: The Role of Policies and Practices

A possible framework for a COVID-19 integrated nerve center demonstrates areas of responsibility.

COVID-19 nerve-center actions

6

External communications

- Government relations
- External relations, including with local community
 - Alumni

5

Finance and legal

- Financial stress-testing
- Multiyear scenario planning
- FEMA¹ accounting and reporting
 - Cash management
 - Endowment
 - Advancement

1

Students

- Health and safety
- Credit and graduation
 - Support services
- Outcomes, including retention, completion, and placement

COVID-19

- Decide operating cadence and project management
- Create an issue map and portfolio of actions
- Implement scenario-planning process
- Benchmark actions against peers
 - Launch and continue communications

4

Campus operations

- Incident management
- Technology (including workfrom-home and online delivery)
- Business and campus access
 - Auxiliary operations
 - Sports

2

Teaching and research

- Faculty training and engagement
- Online-course design
- Research policies
- Local research impact and partnerships

3

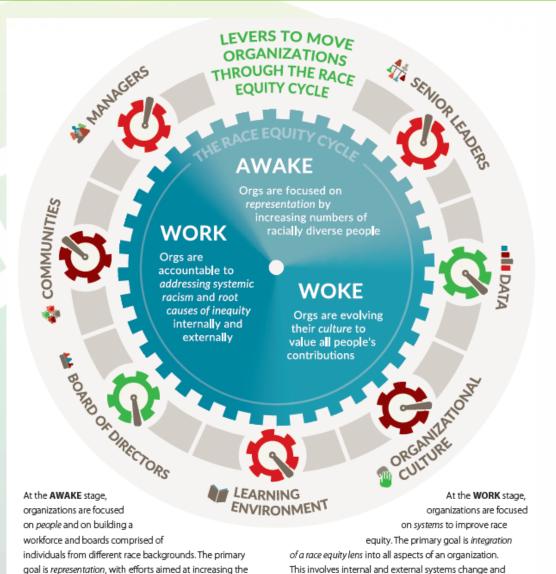
Faculty and staff

- Health and safety
- Workforce policies
- Work-from-home guidelines
 - Workplace norms
- Internal communications

Consider the Broad Impact of COVID-19

'Federal Emergency Management Agency.

McKinsey & Company



regularly administering a race equity assessment to evaluate

Although an organization may identify overall with one stage of

the Race Equity Cycle, on any given lever it may be at a different

stage. For example, an organization can be Woke overall, but

may need to activate Managers in the Awake stage.

processes, programs, and operations.

number of people of different race backgrounds.

At the **WOKE** stage, organizations are focused on culture and creating an environment where everyone is

policies, and practices.

comfortable sharing their experiences and everyone is

equipped to talk about race equity and inequities. The

primary goal is inclusion and internal change in behaviors,



The Race Equity Cycle

Source: AWAKE to WOKE to WORK: Building a Race Equity Culture. ProInspire 2018.



Commit to Inclusive Learning and Teaching Practices

Promote Diversity in Teaching Materials

 Curricular tools should not promote stereotypes, e.g., sex, gender, race, ethnicity, religion, etc.

Ensure Religious Literacy Among Faculty, Staff, Trainees and Students

Provide Effective Interfaith Engagement with Patients

Offer Personal and Professional Career Development Opportunities for Instructors



Provide Individual Support

Promote Effective Mentor-Mentee Relationships

Offer Personal and Professional Career Development Opportunities

Teach About the Power of Negotiation

Give Tenure and Promotion Guidance and Coaching, and Allow Tenure Clock Flexibility

Provide Career Path and Goal Clarity

Assess and Address Climate Issues

Identify Psychological and Social Factors that Mitigate Individual and Institutional Barriers

Promote Sense of Belonging and Research Efficacy Across Social Identity

Foster Community Building





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CAREER COLUMN · 11 AUGUST 2020

Five tips for boosting diversity on campus

Universities and those who work there must reimagine spaces, behaviour and processes to promote a sense of belonging for everyone, say Danielle McCullough and Ruth Gotian.

Danielle McCullough & Ruth Gotian









RELATED ARTICLES

US geoscience program drop controversial admissions test

The time tax put on scie of colour

What Black scientists was from colleagues and the institutions

SUBJECTS

- Identify sources of recruitment
- 2. Consider the speaker roster
- 3. Re-evaluate physical spaces
- 4. Celebrate small wins of everyone in the lab
- Gather educational materials



	Guideline	Examples
	1. Supplemental Mentorship	
	Departments should require at least one other mentor figure beyond the main supervisor, or the creation of a mentorship committee for graduate students and postdocs.	The University of Michigan has recently piloted a mentorship committee program for postdocs (M. Swanson, personal communication, May 2020).
	2. Peer Support	
	Departments should facilitate peer cohorts for social support and peer mentorship, particularly where training start times are not synchronized, such as for postdocs.	The Department of Sociology at the University of Alabama at Birmingham provides all incoming graduate students with peer mentors. While UW-Madison and Brigham and Women's Hospital have postdoc peer mentorship opportunities, these are not incorporated into training/departmental programming.
	3. Required Mentor Training	
Seven Concrete	Departments should require mentor training not merely as a compliance exercise, but as an investment into the professional development of their faculty, staff, and senior trainees.	All basic science graduate science programs at UCSF require faculty to participate "in at least one mentorship development activity of their choosing each year they have a student in their lab."
Actions for	4. Exit Surveys	
Department Chairpersons and	Departments should require anonymous exit surveys from all trainees and staff, publishing aggregate data to ensure the transparent reporting of a department's climate; diversity and inclusion efforts; bullying and harassment; and trainee mental health.	To date, 53 schools have signed onto the NGLS coalition to "collect and publish data using common standards on their life science training programs." We highlight the University of Northern Colorado for publishing thorough information on student satisfaction with the program, research advisor, and factors associated with choosing their field of study.
Administrators	5. Clear Guidelines and Timelines	
	Departments should provide graduate students and postdocs with clear guidelines and timelines, beyond grad student qualifying exams; the timing of career stage advancement should not solely depend on the main supervisor or thesis committee.	Universities in the United Kingdom, such as Oxford and UCL, have PhD thesis submission deadlines of 3–4 years. Albert Einstein College of Medicine has a committee that "reviews the progress of all students who have been in the program for five years or longer and requests an Exit Strategy from [them]".
	6. Standard and Transparent Salary and Benefits	
	Departments should provide trainees with benefits and salaries adjusted for the local cost of living, along with transparent and standardized benchmarks for raises based on years of training.	To our knowledge, the NIH Office of Intramural Training and Education is the only place in the United States that enforces standardized benefits and salary floors, adjusted for years of experience, for both PhDs and postdocs.
	7. Career and Professional Development Resources	
	Departments should require trainees to participate in career and professional development training and workshops of their choice, allowing for exploration of careers beyond academia.	While many schools provide career development opportunities, we highlight the Graduate School of Biomedical Science at UMass Medical School for their career development curriculum built into the PhD training

program.

Source: Davis, et. al. Research Culture: Actionable recommendations from trainees to improve science training. eLife 2020;9:e59806

Table 1. Recommendations.

Seven concrete actions for department leadership with examples.



10 Small Wins for Department Chairs/Research Group Leaders

- 1. Chair Meetings
- 2. Mentoring Plans
- 3. Mentoring to Promotion
- 4. Regular Department Meetings
- 5. Service Assignments
- 6.Research Talks
- 7. Social Events
- 8. Departmental Awards
- 9. Writing, Teaching and Mentoring Communities
- 10. Communication and Shared Calendars



Tactics for leading your team, department, school or university through this trying time

Little gestures matter

 If you are not sure what to do to appreciate and support your faculty or team, just ask them

Professional development matters

Consider providing support to people's growth, which can be carried out virtually

Carrots matter

It is also important to recognize that people appreciate rewards

Dignity matters

 Sometimes you have to look at what people aren't complaining about to know where to focus, and provide things they don't realize they need

Honesty matters

Simply act honestly and transparently

Source: Looking on the Bright Side. Kramer. www.InsideHigherEd.com. May 22, 2020.



Support Advocacy + Commit to Action





Source: https://www.shutdownstem.com



Potential Actions to Drive Inclusive Excellence

	Population	Increase Diversity	Enhance Inclusion	Promote Success	Improve Outcomes
	Students and Trainees	Targeted Outreach Summer Research Programs Post-bac Programs Postdoc Programs	Climate Survey Advisory Groups Affinity Groups Social Support	Fellowships Mentoring Program Seminars and Workshops	Tracking Alumni Network Advisory Groups Monitor and Assess
	Faculty and Staff	Targeted Outreach and Engagement Best Practices in Recruiting and Hiring Postdoc Program Referral Program Strategic Partnerships	Climate Survey Advisory Groups Affinity Groups	Bridge Funding Career Development Awards D&I Awards and Grants Mentoring Program Seminars and Workshops	Tracking Advisory Groups Monitor and Assess
	External Community Members	Targeted Outreach and Engagement Marketing and Communication Culturally-Competent Engagement Referrals	Satisfaction Surveys Advisory Groups	Navigators Volunteers	Tracking Advisory Groups



Pay it Forward



"[My mentor's] character inspired me, and hopefully I will inspire my mentees."

Source: Paying it forward as a mentor. Science. 361(6401). August 3, 2018.



Follow the Golden Rule

"Treat people the way you would like other people to treat you."

My Personal Wish...

"Choose to be kind."



Questions



Resources



Certifications, Coaches Conferences, Trainings and Webinars

NCORE® is designed to provide a significant forum for discussion, critical dialogue, and exchange of information as institutions search for effective strategies to enhance access, social development, education, positive communication, and cross-cultural understanding in culturally-diverse settings.

Resources: Conferences, Online Resources, Webinars

Website: https://ncore.ou.edu/en/

National Research Mentoring Network (NRMN) provides researchers across all career stages in the biomedical, behavioral, clinical and social sciences with the evidence-based mentorship and professional development programming that emphasizes the benefits and challenges of diversity, inclusivity and culture.

Resources: Certifications, Trainings, Social Networking,

Webinars

Website: https://nrmnet.net/#undergradPopup



Certifications, Coaches, Conferences, Trainings and Webinars (cont'd)

National Center for Faculty Development and Diversity (NCFDD) is an independent professional development, training, and mentoring community for faculty members, postdocs, and graduate students that is 100% dedicated to supporting academics in making successful transitions throughout their careers.

Resources: Coaches, Courses, Workshops

Website: https://www.facultydiversity.org



NIH Scientific Workforce Diversity Toolkit



The US scientific research enterprise – from basic laboratory research to clinical and translational research to policy – requires intellect, creativity, and diverse skill sets and viewpoints.



... enhances excellence, creativity, and innovation

... broadens the scope of biomedical inquiry

... addresses health disparities

... ensures fairness in our highly diverse nation



Source: https://diversity.nih.gov/toolkit





Strengthening Pathways to Faculty Careers in STEM: Recommendations for Systemic Change to Support Underrepresented Groups

Lessons from the APLU INCLUDES Project





APLU Report Identifies Steps
Universities & Policymakers Can Take
to Broaden Efforts to Increase
Diversity of STEM Faculty

JUNE 11, 2020

Washington, DC – A new report and accompanying guidebook from the Association of Public and Land-grant Universities (APLU) released today finds that far too many individuals from underrepresented backgrounds stop pursuing STEM faculty positions at critical junctures along the varied and complex pathways to the professoriate.

