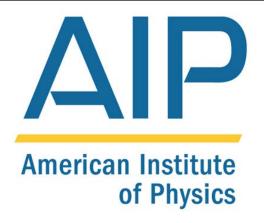


NATIONAL SCIENCE BOARD



ALL HANDS-ON DECK: A VISION FOR AMERICA'S S&E ENTERPRISE



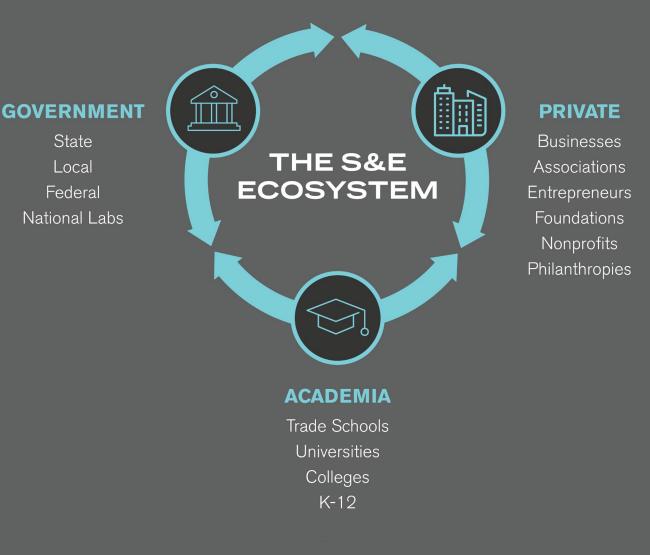
March 25, 2021

Victor McCrary

Vice Chair - National Science Board Vice President for Research and Graduate Programs and Professor of Chemistry, University of the District of Columbia

KEY QUESTIONS

- How can America keep its lead in fundamental research?
- How can American discoveries continue to empower U.S. businesses and entrepreneurs to succeed globally?
- How can the U.S. increase STEM skills and opportunities for all Americans?



FOCUS ON THE FUTURE: NSB ROADMAP



FOSTER A GLOBAL S&E COMMUNITY

EXPAND THE GEOGRAPHY OF INNOVATION

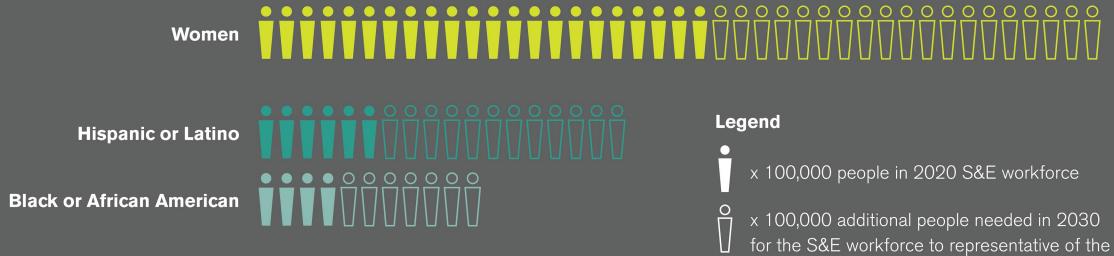
DELIVER BENEFITS FROM RESEARCH

DEVELOP STEM TALENT FOR AMERICA

Develop STEM Talent For America

• **NSB** Action: Ensure that NSF improves the attractiveness, equity, and inclusivity of research careers, including attracting and retaining women and other underrepresented groups; and ensuring that these groups are achieving leadership roles in the S&E ecosystem through appropriate policies, funding, programs, and outreach.

MISSING MILLIONS: FASTER PROGRESS IN INCREASING DIVERSITY NEEDED TO REDUCE SIGNIFICANT TALENT GAP



U.S. population

While the number of people from under-represented groups in the S&E workforce has grown over the past decade, faster increases will be needed for the S&E workforce to be representative of the U.S. population in 2030. To achieve that goal, the NSB estimates that the number of women must nearly double, Black or African Americans must more than double, and Hispanic or Latinos must triple the number that are in the 2020 U.S. S&E workforce. These estimates are based on projections from the U.S. Census and Bureau of Labor Statistics, together with data from the National Center for Science and Engineering Statistics, and assume that participation of these groups in the S&E workforce increases at current rates.

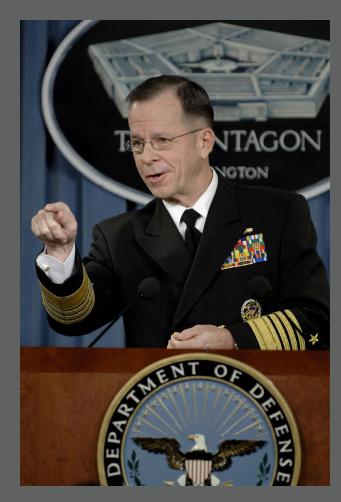
CHEMISTRY FACULTY FROM UNDERREPRESENTED RACIAL AND ETHNIC GROUPS AT TOP 50 US SCHOOLS, 2017–18 (CHEMICAL & ENGINEERING NEWS, 11/9/2020)

Show 10 🔹 entries										Search:		
ASSISTANT PROFESSOR				ASSOCIATE PROFESSOR				FULL PROFESSOR			ALL FACULTY	
Institution	Total	URPOC	% URPOC 🔅	Total 🕴	URPOC 🔶	% URPOC	Total 🕴	URPOC 🕴	% URPOC	Total 🍦	URPOC 🕴	% URPOC
California Inst. of Tech.	7	0	0%	0	0	0%	34	1	3%	41	1	2.4%
Columbia Univ.	1	0	0%	4	1	25%	15	1	7%	20	2	10.0%
Cornell Univ., Ithaca	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Emory Univ.	3	0	0%	6	0	0%	13	0	0%	22	0	0.0%
Florida State Univ., Tallahassee	6	1	17%	4	0	0%	19	0	0%	29	1	3.4%
Georgia Inst. of Tech., Atlanta	7	1	14%	7	2	29%	18	3	17%	32	6	18.8%
Harvard Univ.	3	0	0%	1	0	0%	18	2	11%	22	2	9.1%
Indiana Univ., Bloomington	5	0	0%	8	0	0%	23	0	0%	36	0	0.0%
Johns Hopkins Univ. ^a	5	0	0%	2	0	0%	14	1	7%	21	1	4.8%
Massachusetts Inst. of Tech.	7	0	0%	6	0	0%	19	0	0%	32	0	0.0%
Total	301	27	9.0%	245	16	6.5%	1,053	40	3.8%	1,599	83	5.2%
Showing 1 to 10 of 50 entries										Previous	1 2 3	4 5 Next

Research Capacity & STEM Talent: America's HBCUs

Entity	Carnegie Designation 2020	Moody's Rating	Research Expenditures (2018)	NSF Expenditures (2018)	NSF Expenditures (2016)	Endowment (2016-2019)
Clark-Atlanta	R2	Ba2	\$8M	\$1.9M	\$1.5M	\$69M
Delaware State	R2	Aa3	\$21M	\$3.3M	\$5.4M	\$28.6M
FAMU	R2	Baa1	\$40M	\$3.0M	\$2.4M	\$98M
Hampton	R2	Aa2	\$14M	\$3.2M	\$3.8M	\$263.2M
Howard	R2	Ba1	\$46M	\$6.7M	\$7.8M	\$692.8M
Jackson State	R2	Aa2	\$19M	\$6.5M	\$6.0M	\$60M
North Carolina A&T	R2	A1	\$38M	\$8.6M	\$7.5M	\$57M
Morgan State	R2	A1	\$13M	\$1.0M	\$1.0M	\$32.9M
Tennessee State	R2	Aa1	\$18M	\$1.7M	\$1.6M	\$51M
Texas Southern	R2	Baa3	\$4M	\$0.5M	\$0.8M	\$54M
UDC	M2	Ааа	\$2.9M (FY19 = \$4.8M)	\$0.86M (FY19=\$1.014M)	\$0.86M	\$51M (FY19)
UMES	R2	Aa1	\$5M	\$0.0M	\$0.0M	\$26.2M

It just takes making the commitment and perseverance If the US Military can do it – AIP and its members can do it!!





General (ret.) Lloyd Austin Secretary of Defense

ADM Mike Mullen Chairman of the Joint Chiefs of Staff 2007 - 2001 NSB needs **you** to help us implement Vision 2030