

#### Diversity & Inclusion at NRAO New Mexico Town Hall – April 19, 2018



### Office of Diversity & Inclusion (ODI)

https://info.nrao.edu/do/odi/broader-impact-programs/odi/

# Director's Office

The NRAO is fully committed to creating a culture and environment that is rich in diversity and naturally inclusive.





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# Purpose of Town Hall

- Review NRAO's commitment to Diversity and Inclusion
- How NRAO works to achieve our D&I goals
- Review of Diversity Advocate and Employee Diversity roles
- Brainstorming Activity



https://info.nrao.edu/do/odi

# Strategic Vision

To enable diversity to thrive in all areas of the Observatory in a seamless manner, wherein diversity becomes a natural part of the way we think about work, in the decisions we make, and in our behavior towards others.



https://info.nrao.edu/do/odi

# **Diversity Policy Statement**

Our employees, essential to our success, are to be valued, treated with respect, and have opportunities to work in an inclusive, multicultural and gender diverse environment.

NRAO staff and management are responsible and accountable for achieving the above goals.



https://info.nrao.edu/do/odi

# What do we mean by "Diversity"?

- Understanding that each individual is unique, and brings a set of unique skills and experiences to NRAO
- Along the dimensions of race, ethnicity, gender, sexual orientation, gender identity, age, and physical abilities

GOAL: To ensure that NRAO is producing the best outcomes. Diverse groups make better decisions.



https://info.nrao.edu/do/odi

## What do we mean by "Inclusion"?

- Recognizing and **valuing** individual identities and experiences
- Consciously including those who might otherwise be excluded
- Exploration of our diversity in a safe, positive, and nurturing environment
- Understanding the power of diverse ideas and experiences



https://www.nsf.gov/od/oia/special/broaderimpacts/

# What does NSF mean by "Broader Impact"?

- Building STEM Talent
   RAP-NM, RAMP-UP,
   H2O, NAC, REU, Grad programs,
   PD programs
- Innovating for the Future Science, research opportunities
- Improving our society
- Reaching beyond borders NINE, ODI-Chile, Sister Cities
- Engaging a wider audience
   EPO



#### More about this!



https://www.nsf.gov/od/oia/special/broaderimpacts/

In summary, NRAO is addressing several goals:

- Meeting NSF's mandates toward Broadening Participation
- Building a diverse workforce that is representative of the larger U.S. and local communities
  - NRAO reports race and gender information to NSF
- Creating and maintaining a culture of inclusion so that a diverse workforce can flourish – and so that NRAO operates at its best





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### ODI and HR

https://www.nsf.gov/od/oia/special/broaderimpacts/

# Training and Educational Opportunities

- Unconscious Bias required...
- Online Courses
- In-person Courses
  - Unconscious/Implicit Bias
  - Safe Space/LGBT Cultural Awareness
  - Disability Awareness & Etiquette
  - Post-traumatic Stress Disorder (PTSD)
  - Mentoring Students from a Diverse Background
  - Imposter Syndrome
  - Professional Skills Development for Women
  - Anti-Harassment and Anti-Bullying

In Socorro and the VLA



### Office of Diversity & Inclusion (ODI)

https://info.nrao.edu/do/odi/diversity-advocates

# Diversity Advocates & Employee Diversity Group

- Actively promote the benefits of diversity
- Speak up to address issues that fail to meet our standards of inclusion
- Value the power of diverse ideas and experiences





### Office of Diversity & Inclusion (ODI)

https://info.nrao.edu/do/odi/diversity-advocates

Diversity Advocates & Employee Diversity Group

#### **Diversity Advocate(s)**

- Point of contact at site
- Chair of Employee Diversity Group
- Represent and champion D&I in everyday actions
- Communicate to Site Director outcomes of D&I meetings
- Work with Site Director and D&I Director to organize site activities
- Manage NRAO D&I activities at site level
- Provide information on site S&I activities for NSF reporting
- More (see Position Description)

#### **Employee Diversity Group**

- Participate in NM D&I meetings
- Assist with sharing Observatory-wide D&I communications
- Serve as D&I role model
- Communicate D&I-related information to Diversity Advocate
- Be attentive to opportunities to advocate for D&I
- Complete assigned suite of training classes
- Solicit ideas from employees regarding diversity oriented events/issues relevant to site

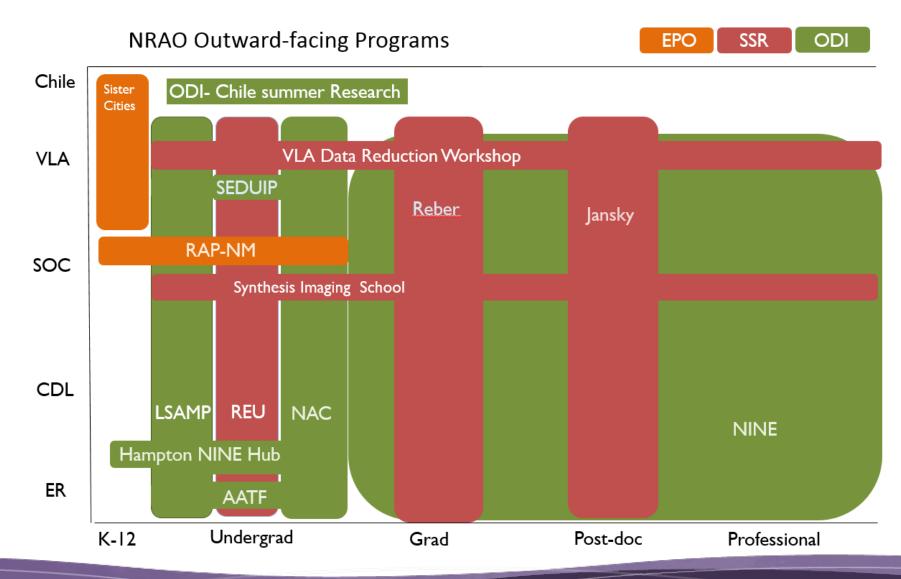




#### **Broadening Participation**

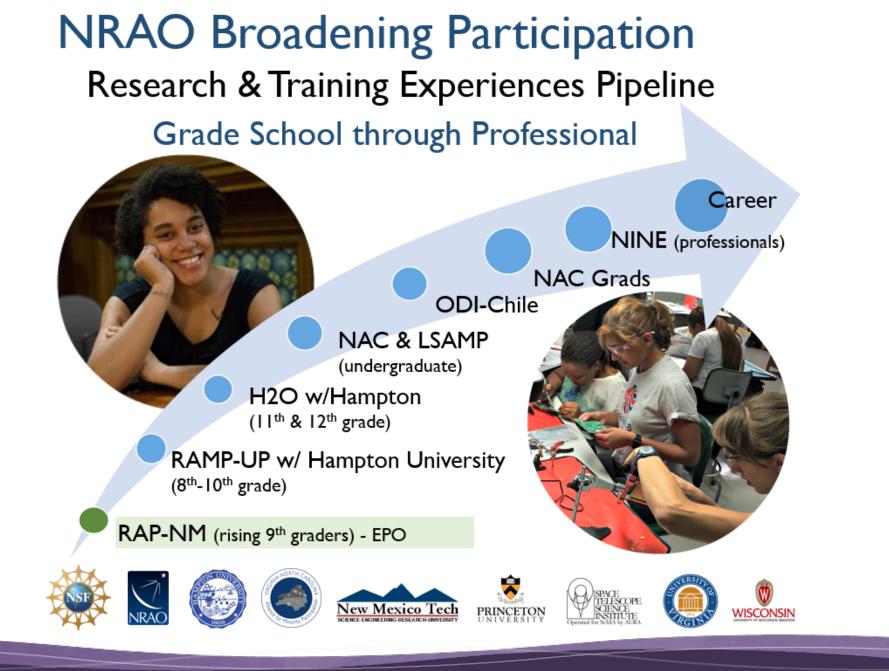


#### **Broadening Participation**

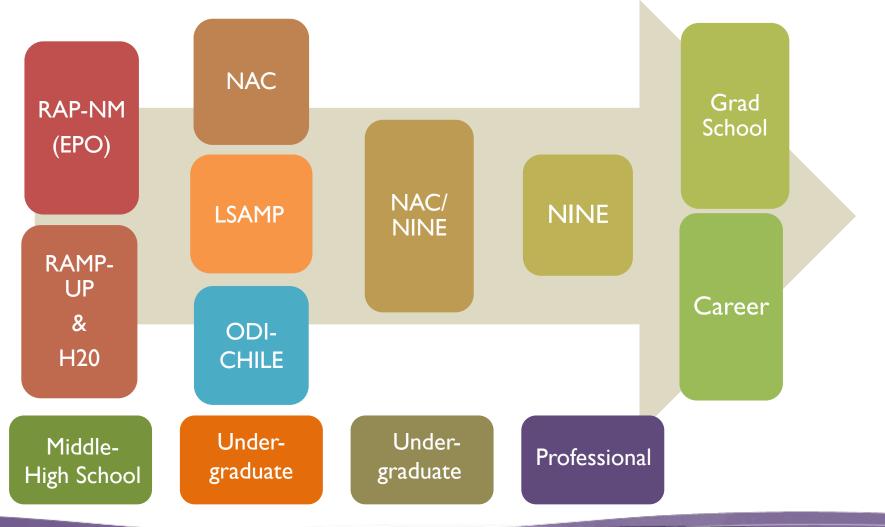


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Universities Inc







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sociated Universities Inc

RAP-NM (EPO)	<ul> <li>NRAO EPO STEAM Education Program</li> <li>Rising 9<sup>th</sup>-graders – Socorro, Magdalena</li> <li>Residential week-long summer camp</li> <li>Paired with NAC undergraduate mentors</li> </ul>	
RAMP- UP	<ul> <li>Hampton University NINE Hub</li> <li>Middle school– Hampton Virginia</li> <li>Optical Radio Jove builds</li> <li>Presentations at ERN, BEYA, and NSBP</li> </ul>	NAC
H2O	<ul> <li>Hampton University NINE Hub</li> <li>NRAO-Hampton City Schools-Hampton Univ.</li> <li>College credit Astronomy course at HU</li> <li>Research and presentations at ERN, BEYA, NSBP</li> </ul>	

#### Middle School - High School

NRAO NSF

- NRAO EPO STEAM Education Program
- Rising 9<sup>th</sup>-graders Socorro, Magdalena
- Residential week-long summer camp
- Paired with NAC mentors





Pathway under development

NAC

#### Middle School - High School



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RAP-NM

(EPO)

- Hampton University NINE Hub
- Middle school (8<sup>th</sup>-10<sup>th</sup> grade) Hampton Virginia
- Optical and Radio Jove builds
- Presentations at ERN, BEYA, and NSBP



#### Middle School - High School

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RAMP-UP





#### H2O: Stimulating STEM Career Pathways

#### H2O

- Hampton University NINE Hub
- NRAO-Hampton City Schools-Hampton Univ.
- College credit Astronomy course at HU
- Research and presentations at ERN, BEYA, NSBP

#### Middle School - High School - College



NAC

College

Associated Universities In

The NAC Undergrad Experience





Grad school NAC/NINE Career



- Under-represented minority students
- Strong, long-term mentoring and support
- Cohort and network building
- Research, engineering, software, etc. experiences

#### **Undergraduate Students**







#### Undergraduate Students







Grad school Career

- ODI-CHILE
- Students from universities near ALMA
- Mentored by NRAO/ALMA scientific staff
- 10 weeks during Chilean summer
- Present research at annual SOCIAS meeting

#### Undergraduate Students









- NAC Alums in graduate school
- Eligible for NAC Fellowships
- Serve as mentors to NAC undergrads
- Support network for fellow graduate students

#### **Graduate Students**



SF Associated Universi

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Grad school NAC/NINE Career

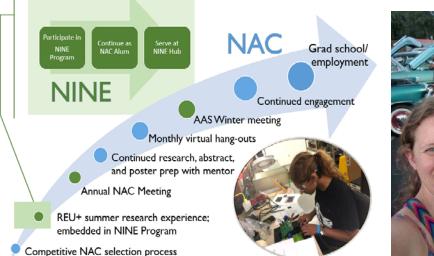
- Professionals at any career level
- Project Management (PM) & Systems Engineering (SE) training
- Hub development for home institution

#### **Professionals**





(NINE) Progra





Grad school NAC/NINE Career



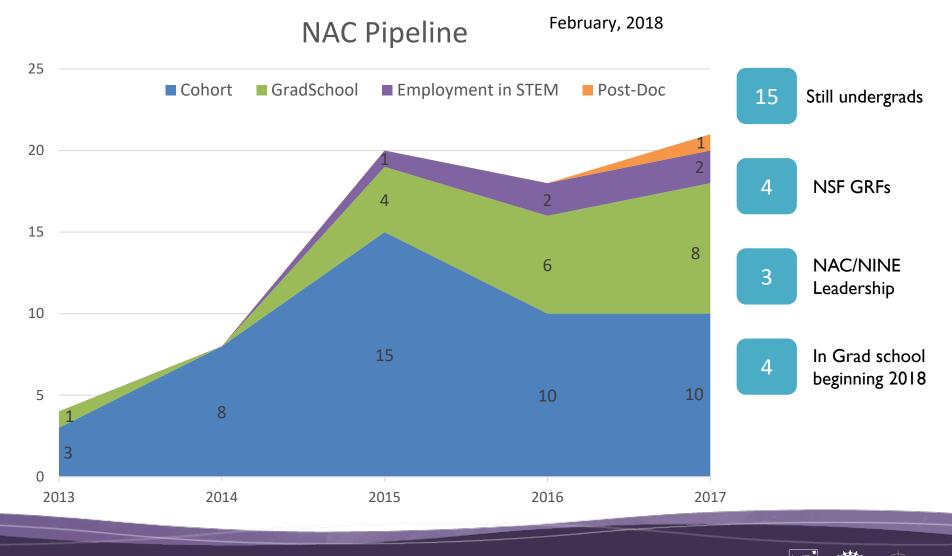
- NAC student embedded in NINE program
- Learning Project Management skills
- Research or engineering experience
- Servant-Leadership training and experience

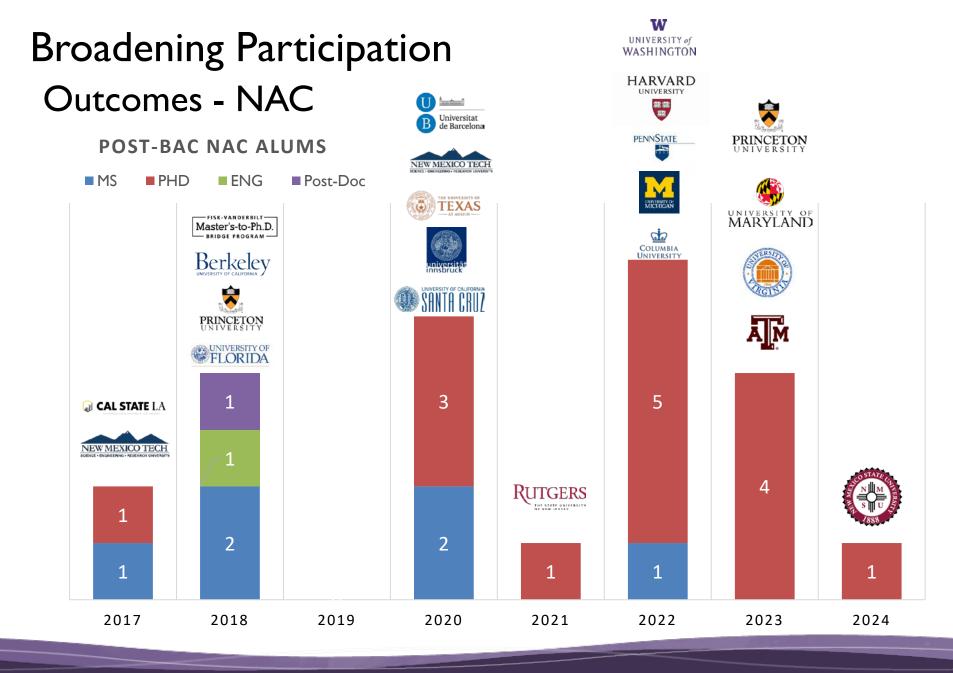
#### Undergraduate Students





### Broadening Participation Outcomes - NAC





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#### Broadening Participation Outcomes - NAC GRAI

#### **GRADUATE SCHOOLS – NAC Students**

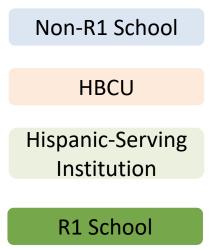




### Broadening Participation Outcomes - NAC

Undergraduate School	Graduate School		
Texas Christian University	Texas A&M - College Station		
Norfolk State University	Cal State Univ LA		
College of Idaho	New Mexico Tech		
Texas Southern University	Rutgers University		
Whittier College	Leopold-Franzens Universität Innsbruck		
City College of New York	Princeton		
Howard University	University of Michigan Applied Physics		
University of Alabama, Huntsville	Princeton		
University of California - San Diego	University of Barcelona		
Howard University	University of Texas - Austin		
University of Tennessee, Knoxville	Harvard University		
Harvard University	Columbia University		
Howard University	UC Berkeley College of Engineering		
University of North Carolina, Chapel	Fisk Vanderbilt Bridge Program - MS		
Harvard University	UC Santa Cruz		
New Mexico Tech	New Mexico Tech		
Old Dominion University	New Mexico State University		
Piedmont Virginia Community College	University of Virginia		
University of Wisconsin	Banneker Institute at Harvard		
CSU - San Bernadino	University of Maryland, College Park		
Howard University	University of Washington		
Howard University	Penn State		

#### Undergraduate and Graduate Schools









science.nrao.edu public.nrao.edu ngvla.nrao.edu

The National Radio Astronomy Observatory is a facility of the National Science Foundation operated under cooperative agreement by Associated Universities, Inc.



