



**NASA Advisory Council**

**Taskforce on STEM Education Meeting**

**April 3, 2015**

**Dr. Roosevelt Johnson**

**NASA Education, Deputy**

**Associate Administrator**



# NASA Education Collaborations with Federal Agencies



## 21CCLC with Department of Education:

- The Partnership pairs the extensive reach and infrastructure of ED with NASA's access to world-class subject matter experts.
- Afterschool programs in 10 states have participated in design challenges that build STEM skills.
- Plans for expansion to other federal partners in FY2014-15.
- Piloting efforts underway modeled after NASA's work by The National Parks Service and Institute of Library and Museum Services
- Adaptation of the NASA evaluation model for assessing STEM implementation by ED for 21CCLC sites

# NASA Education Collaborations with Federal Agencies



## Undergraduate STEM Education Interagency Working Group (IWG)

**Priority Investment Area and National Goal:** Enhance STEM experience of undergraduate students. Graduate 1 million additional students with degrees in STEM fields over a decade.

### Progress Highlights:

- Presentations given by NASA representatives to the group on NASA investments in research and research-like experiences.
- Working with Department of Education to develop virtual communities of practice for community colleges, with a focus on getting more research experiences for students in the first two years.
- Establishing common metrics for federal agencies.



# NASA Education Collaborations with Federal Agencies



## Graduate STEM Education Interagency Working Group (IWG)

Priority Investment Area and National Goal: Design graduate education for tomorrow's STEM workforce. Provide graduate-trained STEM professionals with foundational expertise in basic research, options to acquire specialized skills in areas of national importance and mission agency's needs, and ancillary skills needed for success in a broad range of careers.

### Progress Highlights:

- Work towards a common portal for fellowship and traineeship opportunities for graduate students, graduate program/fellowship evaluation.
- Implementation of the Graduate Research Internship Program (GRIP) for NSF Fellows. GRIP information available at: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505127](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505127)
- Use of SharePoint OMB MAX, a system to share internal documents between agencies.
- Pilot of collaborative STEM webinar series highlighting graduate level student research by four Federal agencies: NASA, NOAA, NSF, and EPA.

# NASA Education Collaborations with Federal Agencies



## NASA ESTEEM and TrACE

NASA Earth Systems, Technology, and Energy Education for MUREP (NASA ESTEEM) formerly NASA Innovations in Climate Education (NICE) is a competitive project that promotes climate and Earth system science literacy.

- The Tri-Agency Climate Education (TrACE) Catalog provides climate education products and resources that have been developed by initiatives funded through NASA (NASA ESTEEM), NOAA (Environmental Literacy Grants), and NSF (Climate Change Education Partnerships).
- TrACE helps climate change education project principal investigators and staff to share their work with the public, and to connect with other projects and people who are working on similar efforts. TrACE information available at: <http://esteem.larc.nasa.gov/> )

# NASA Education Collaborations with Federal Agencies



## National Institute for Food and Agriculture (NIFA)

- Five-year MOU is for collaborative education, research and communications activities in Earth science, agriculture, aviation, and aerospace.
- NIFA's 4-H youth development program engages more than 6.5 million young people every year. 4-H information available at: <http://www.4-h.org/>
- Partnership aligns to CoSTEM priority area to increase and sustain youth and public engagement, broadening participation by underrepresented underserved individuals, and graduate and undergraduate education .



**Thank you!**