



# **S T E M** INSPIRE - ENGAGE - EDUCATE - EMPLOY The Next Generation of Explorers



September 14, 2017

Mike Kincaid – Associate Administrator for  
Education (Acting)

# Submit Your Questions and Vote: [www.jsc.cnf.io](http://www.jsc.cnf.io)



## Announcement

Welcome to the **\*Space Grant National Meeting!\*** Q & A will be part of the meeting. Please add a question, or go and “vote up” someone else’s question. Please note that questions will be selected by the moderator and/or Mike and may not necessarily be in a particular order.

## Social Q&A

 Ask

Vote by clicking / tapping the arrow

Since the house and senate have both proposed budgets which include



- ✓ Introduction
- ✓ Where We Have Been
  - ✓ Where We Are
  - ✓ Where We Are Going
- ✓ Space Grant – An Invaluable Partner



# ✓ Introduction

Where We Have Been

Where We Are

Where We Are Going

Space Grant – An Invaluable Partner

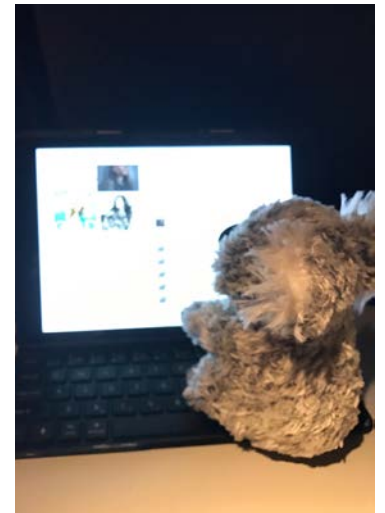
# We Want to Hear from You!













# Introduction

✓ **Where We Have Been**

Where We Are

Where We Are Going

Space Grant – An Invaluable Partner





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Introduction

Where We Have Been

✓ **Where We Are**

Where We Are Going

Space Grant – An Invaluable Partner

# Education and Outreach Business Services Assessment Concerns



Governance

Program  
Management

Grants  
Management

Outreach

# Approach



NASA will implement changes to our STEM Education Strategy to ensure we are being effective, efficient, and successful as we engage the public in NASA's missions

Governance and organizational changes

More effective management and intra-agency coordination

Enhanced focus on NASA-unique contributions

Better use of limited resources and integration with mission directorate activities

Expanded and improved evaluation strategy

Ability to tailor strategy and content for maximum effectiveness



# Draft Vision & Mission



## Vision

We immerse the public in NASA's work,  
enhance STEM literacy, and  
inspire the next generation to explore.

## Mission

We engage the nation in NASA's mission.

- Create **unique opportunities** for students and the public to **contribute** to NASA's work in exploration and discovery.
- Build a **diverse future STEM workforce** by engaging students in authentic **learning experiences** with NASA's people, content and facilities.
- Strengthen **public understanding** by enabling **powerful connections** to NASA's mission and work.

**-DRAFT-**

# Fiscal Climate



\$M	FY 2017	FY 2018		
	actual	President's	House (draft)	Senate (draft)
Space Grant	\$ 40.0		\$ 40.0	\$ 40.9
EPSCoR	\$ 18.0		\$ 18.0	\$ 17.1
MUREP	\$ 32.0		\$ 32.0	\$ 32.0
SEAP	\$ 10.0		\$ --	\$ 10.0
Close-out Project	\$ --	\$ 37.3	\$ --	\$ --
Total	\$ 100.0		\$ 90.0	\$ 100.0



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Introduction  
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# BSA: Driving a New Approach



An investment in NASA mission content coupled with learning experts will:

- Tap into authentic experiences and talent at Centers;
- Support agency mission and communication priorities/events (i.e., James Webb Space Telescope launch and receipt of images, EM1 launch, and 50<sup>th</sup> anniversary of Apollo);
- Meet evidence-based audience needs;
- Capitalize on mission directorate research and development, unique content and subject matter expertise; and
- Engage other organizations to deliver an integrated portfolio that enables greater STEM learning.



# BSA: Driving a New Approach



In the new approach, the agency can more effectively leverage:

- Mission directorates' investments in STEM activation, collaboration or education
- Space Grant and MUREP funding
- Agency Communications' priorities to incorporate authentic STEM components
- Human Capital's and Diversity & Equal Opportunity's pursuit of a highly-skilled, high-tech workforce

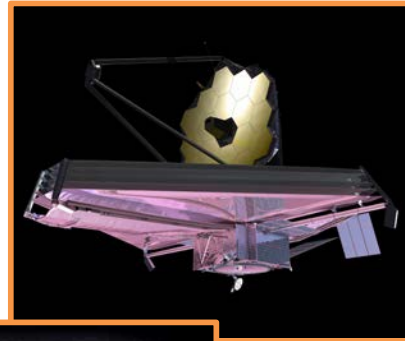


# Potential STEM Engagement Initiatives – FY19



## Mission Communications & Outreach Strategy:

- Social Media
- Web, [www.nasa.gov](http://www.nasa.gov)
- Exhibits
- Museum Displays
- Strategic Partners
- Experiences/Guest ops
- NASA Visitor Center events

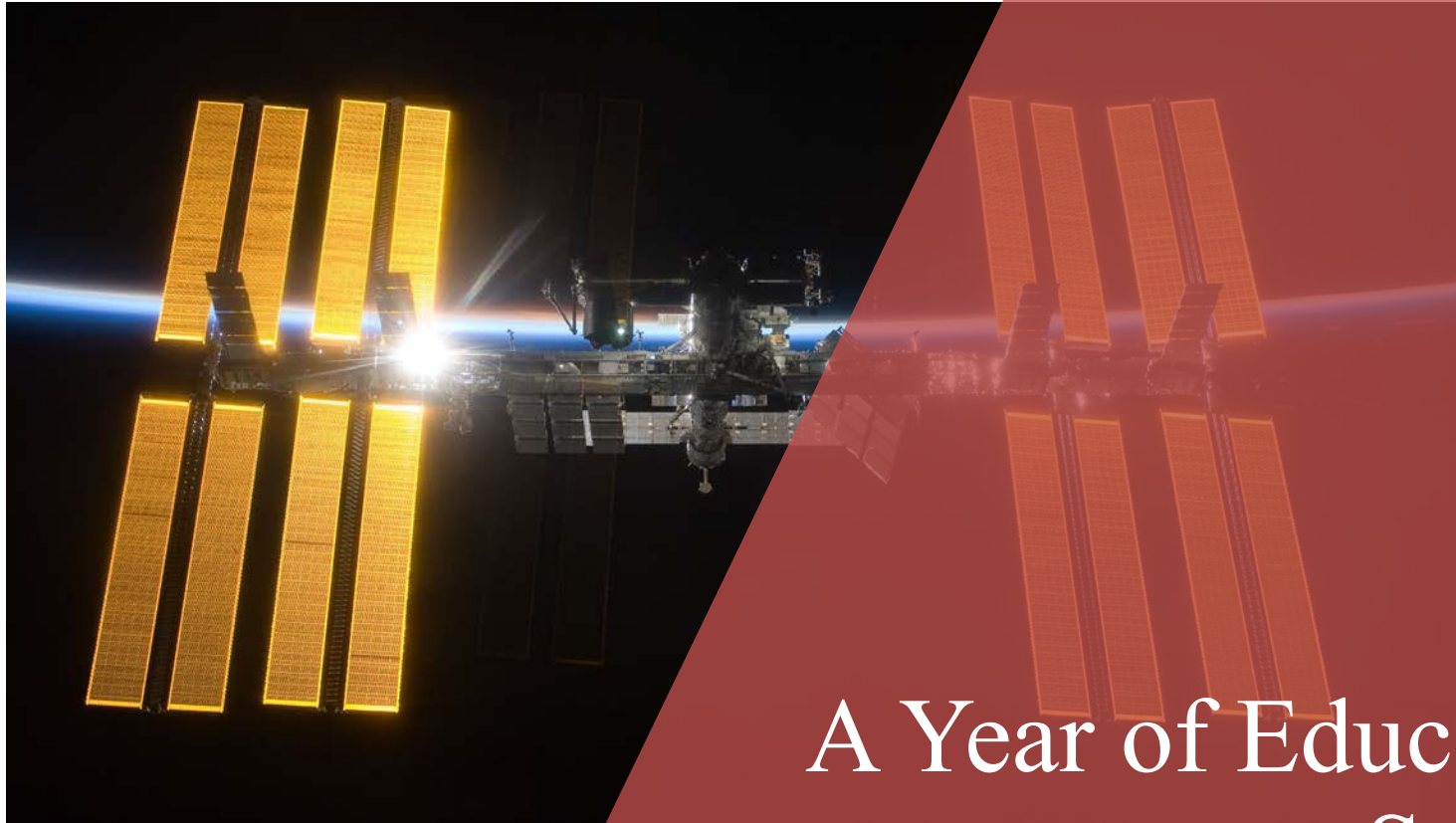


## NASA Education unique contributions:

- K-8 engineering design challenges
- Virtual learning activities
- Bilingual educational content offerings
- Informal education activities for museums, libraries and other youth- and public-serving organizations
- Enhanced student competitions

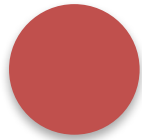


# New Approach: FY18 Demonstration



A Year of Education  
on Station

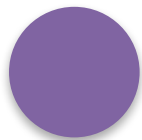
# Teachers in Space



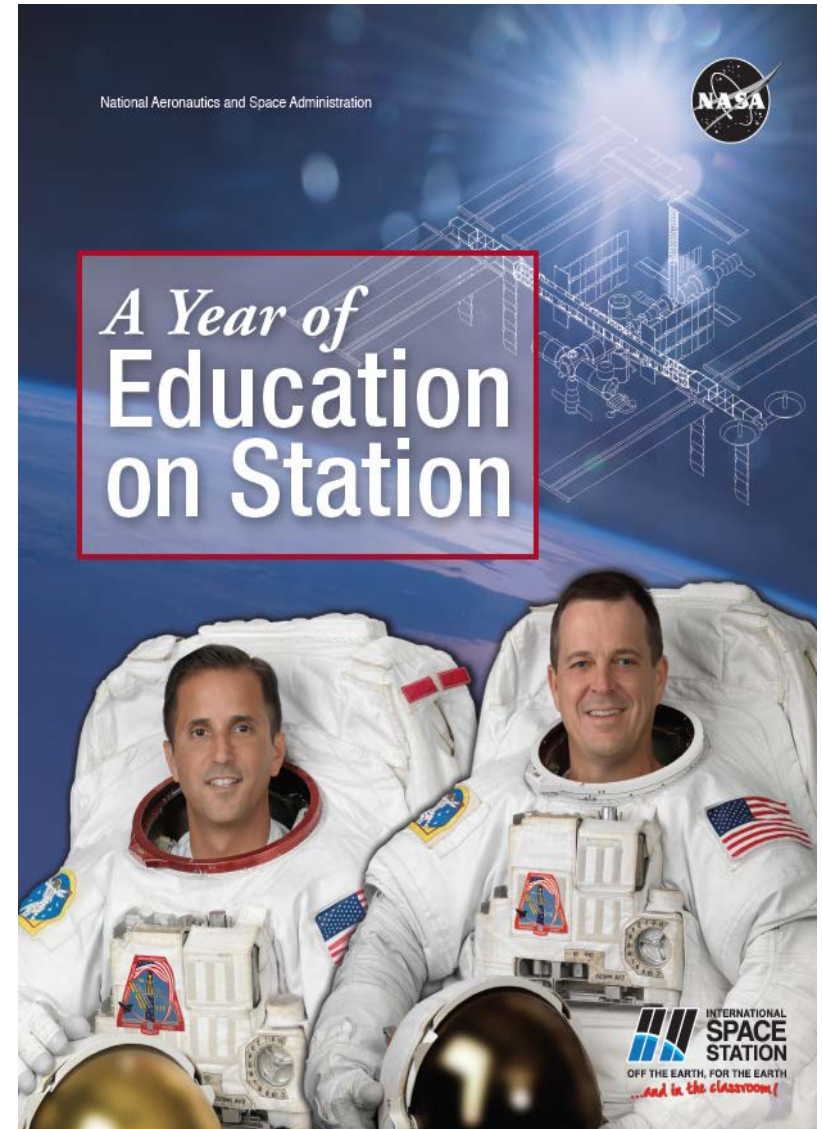
Joe Acaba will be onboard from September 2017 to February 2018



Ricky Arnold will be onboard from March 2018 to September 2018



Join NASA Education for this exciting opportunity!



# A Year of Education on Station



## STEMonstrations + Crew Time

Video demonstrations showcasing scientific concepts on the space station with accompanying classroom guides + time for on-orbit video

## A New Website

Stay up-to-date on the mission and related resources and opportunities – includes cool new features!

## Partnerships

We are working with a variety of groups, including Challenger Center, University of Houston-Downtown, NSTA, Microsoft and others

## Stay Social

Keep up with us on social media – you never know what the astronauts might have in store!  
@NASAedu  
@AstroAcaba  
@astro\_ricky

[www.nasa.gov/education/onstation](http://www.nasa.gov/education/onstation)

# Partnerships





# How YOU Can Get Involved



Submit a letter of intent to host an in-flight education downlink with Joe Acaba or Ricky Arnold ([JSC-Downlinks@mail.nasa.gov](mailto:JSC-Downlinks@mail.nasa.gov))



Get affiliates involved online using #teacheronboard and/or #stemonstation



Join NASA Express Message to learn about new resources and opportunities ([www.nasa.gov/education/express](http://www.nasa.gov/education/express))

# Old OSSI Launchpad Page



## Office of Education Infrastructure Services (OEIS) Launchpad

An Innovative Solution to Support the STEM Workforce of Tomorrow



NASA Office of Education | NASA Office of Communications | NASA Human Capital Management | NASA Diversity and Equal Opportunity

[Home](#)

[Student Opportunities](#)

[Help](#)



### Getting Started for Students

[Student's Guide to Getting Started](#)

[More Info](#)

### NASA Intern and Fellow Opportunities for International Students

[NASA International Internship \(NASA I2\) Guide](#)

[More Info](#)

The 2018 Spring Session [internship application](#) dates are from 06/02/2017 — 10/17/2017.

### OSSI Student Opportunities and Student Information

[NASA Internships, Fellowships, and Scholarships](#)

[NASA One Stop Shopping Initiative \(OSSI\)](#)

### Requests and Community Outreach

[OSSI Information Center \(OIC\) Launch | More Details](#)

### NASA STEM



[Learn More](#)

[Social Media @ NASA](#)

# New Intern.gov Splash Page



## Internships, Fellowships, and Scholarships



**I want to be a NASA:**  
INTERN  
FELLOW  
INTERNATIONAL INTERN  
PATHWAYS EMPLOYEE

**I want to explore NASA:**  
OPPORTUNITIES  
INTERN STORIES

**I am a NASA Mentor:**  
SPRING 2018 SESSION  
SUMMER 2018 SESSION



NASA - National Aeronautics and Space Administration  
Page Last Updated: August 2017  
Page Editor: Agency Applications Office (AAO)

Connect with NASA



Related Links

No Fear Act | FOIA | Privacy | OIG  
Agency Financial Reports | Contact NASA | Help



# NASA Express



**EXPRESS**  
The NASA Education EXPRESS message features updates from NASA and STEM associates.

Sign up at  
[www.nasa.gov/education/express](http://www.nasa.gov/education/express)

Check out the following NASA opportunities for the education community. Full descriptions are listed below.

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**NEW THIS WEEK!**

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**Free Education Webinars From NASA Educator Professional Development**

The NASA STEM Educator Professional Development Collaborative at Texas State University is presenting a series of free webinars open to all educators. Join NASA education specialists to learn about activities, lesson plans, educator guides and resources that bring NASA into your classroom. Registration is required to participate. To register, simply click on the link provided beneath the webinar description.

**Mission STEM: Constructing Explanations and Solutions**  
**Audience:** Pre-service, In-service, Home School and Informal Educators of Grades K-12  
**Event Date:** July 31, 2017, at 4 p.m. EDT  
Participants will explore resources that allow students to practice inquiry-based strategies while completing design challenges. Explore recording, analyzing and interpreting data. And learn how maps and models can be used to help students gain perspective and answer questions. Register online to participate.  
<https://www.etoouches.com/249118>

**Exploring Beyond the Planets: Cassini and Saturn**  
**Audience:** Pre-service, In-service, Home School and Informal Educators of Grades K-12  
**Event Date:** Aug. 1, 2017, at 6:30 p.m. EDT  
Participants will learn about the solar system and beyond. Explore the current research going on at Saturn with the Cassini mission and related activities that can be used within the classroom or during after-school programs. Register online to participate. <https://www.etoouches.com/254227>

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**PREVIOUSLY PROMOTED OPPORTUNITIES...**

**20th ANNIVERSARY**  
**NASA Education EXPRESS**

**STEM INSPIRE • ENGAGE • EDUCATE • EMPLOY**  
**The Next Generation of Explorers**

Check out the latest NASA opportunities for the education community.

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**NEW THIS WEEK**

[NASA's Digital Learning Network Live Event – Cassini's Final Days Webcast](#)  
**Audience:** All Educators and Students  
**Event Date:** Sept. 7, 2017, 1 - 2 p.m. EDT  
**Contact:** [DLNfochannel@gmail.com](mailto:DLNfochannel@gmail.com)

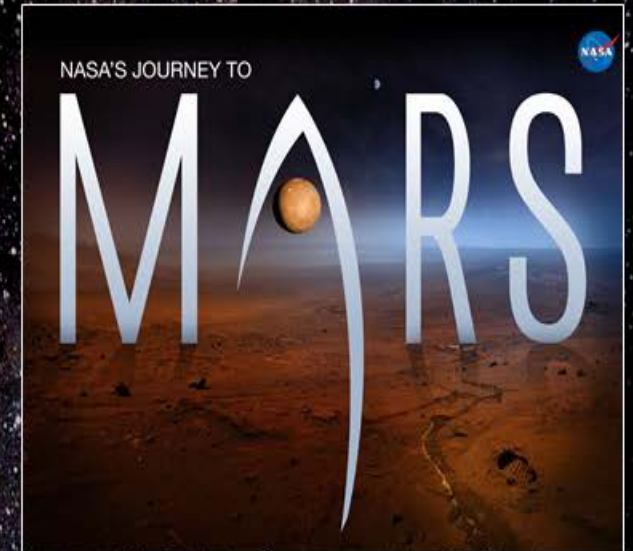
On Sept. 15, 2017, the Cassini spacecraft will plunge into Saturn, thus completing a nearly 20-year mission. Join NASA's Digital Learning Network for a live one-hour virtual event – just days before the end of mission – to learn more about the upcoming "grand finale." Ask NASA experts your questions via Twitter [@NASADLN](#) using #askDLN or by email at [DLNfochannel@gmail.com](mailto:DLNfochannel@gmail.com).

**ACT FAST!**  
These Opportunities Blast Off Soon!

[NASA Swarmathon: Seeking College Teams for Virtual Robotics Competition!](#)  
**Audience:** Higher Education Faculty and Students at Minority Serving Universities and Minority Serving Community Colleges  
**Event Date:** Sept. 15, 2017  
**Contact:** [info@nasaswarmathon.com](mailto:info@nasaswarmathon.com)

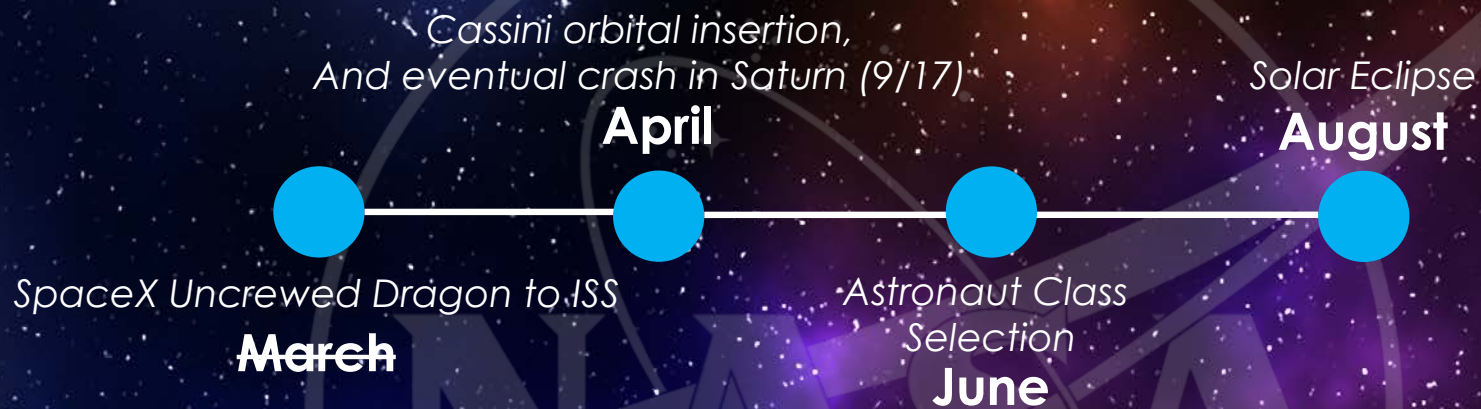
The 2018 NASA Swarmathon Virtual Competition challenges students to develop search algorithms for robotic swarms. These algorithms will be tested by competition organizers in a virtual environment. Selected teams will receive a \$500 stipend for their faculty member; training via live webinars, videos and guides; and access to technical

# Agency Communications Priorities





# “Level 1” – Communication Activities FY17







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# #InternEclipse



# Space Grant and the Eclipse





# Alignment vs. Engagement



# Alignment vs. Engagement



Somewhat Aligned



# Alignment vs. Engagement



Engaged/Aligned



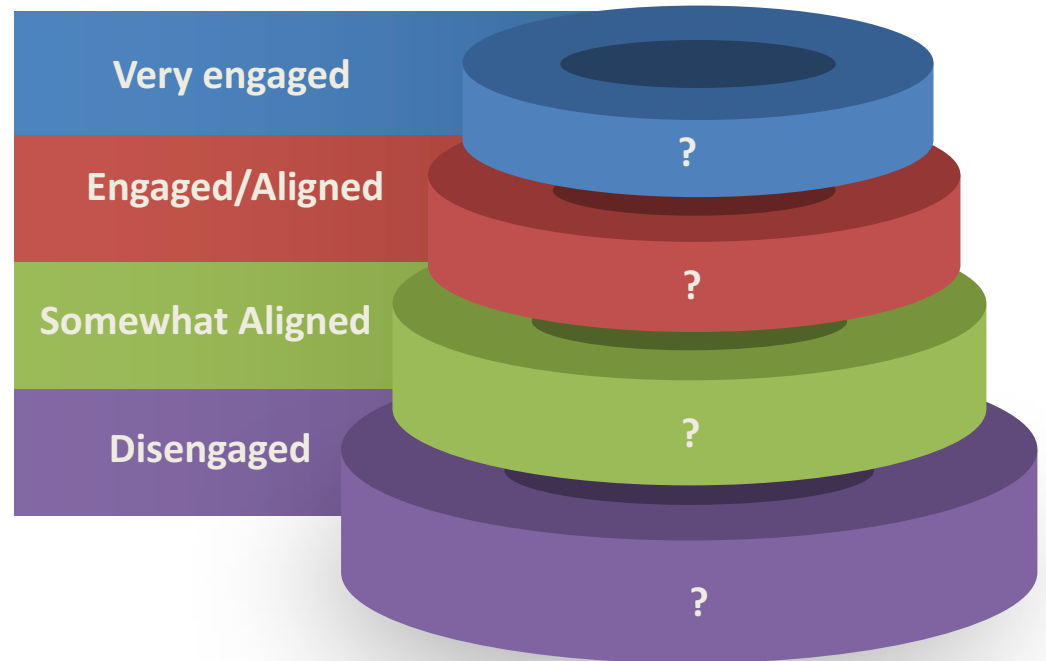
# Alignment vs. Engagement



Very Engaged

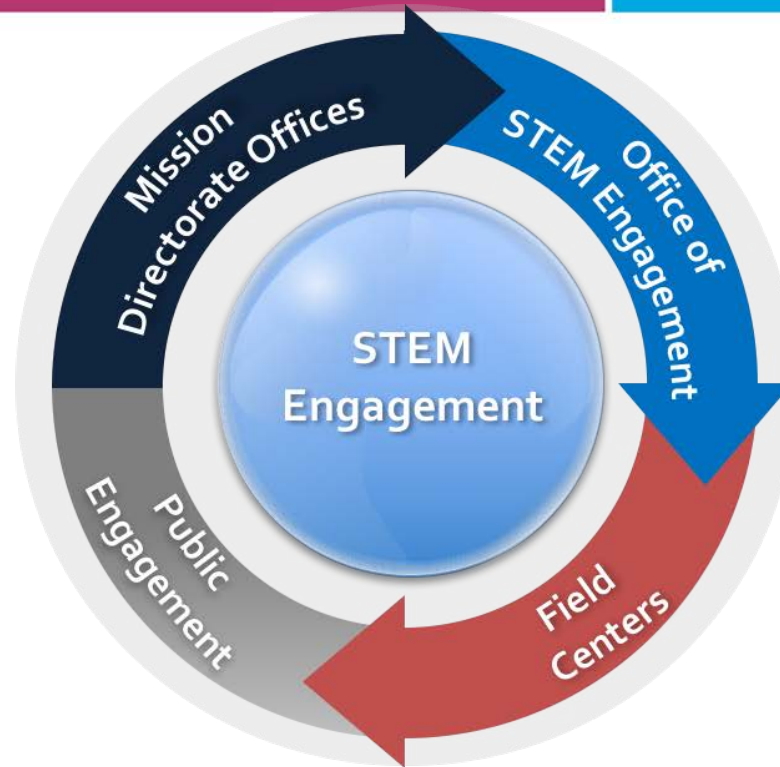


# Alignment vs. Engagement





# Mission-Driven • Strategic Engagement



## Work of the Agency



# 2017 Astronaut Class: Zena Cardman



- Pennsylvania Space Grant Consortium Fellowships (2015-2016)
- North Carolina Space Grant Fellowships (2008-2010, 2013-2014)

# Questions? [www.jsc.cnf.io](http://www.jsc.cnf.io)



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