NASA Administrator’s Fellowship Program

Informational Videoconference
November 5th & 6th, 2007
AGENDA

3:30pm - 3:35pm: Introductions

3:35pm - 3:40pm: General Remarks

3:40pm - 4:00pm: NAFP Overview

4:00pm - 4:15pm: NAFP Spotlight Video Presentation & NAFP Fellow Experiences

4:15pm - 4:35pm: The NAFP Application Process

4:35pm - 4:55pm: Q&A Session

4:55pm - 5:00pm: Closing Remarks
NASA HQ Office of Education, NASA MSFC Education Office and UNCFSP work in partnership to administer the NAFP.

Responsibilities include:

- Program Recruitment
- Application Review and Selection Process
- New Fellow Orientation
- Professional Development Training
- Outcomes Tracking and Reporting
NASA Administrator’s Fellowship Program (NAFP)

Mission
To enhance the professional development of NASA employees and STEM faculty at minority institutions, while increasing the capability of these institutions to respond to NASA’s overall research, development, and education needs.
Who Can Participate?

- NASA Career Employees who will teach and/or conduct research at a Minority Institution (MI).
- Science, Technology, Engineering and Mathematics (STEM) Faculty from a MI who will conduct research at a NASA Center.
- MIs are accredited post-secondary institutions as defined by the U.S. Department of Education (www.ed.gov)

Research Disciplines include, but are not limited to:

- Agronomy
- Astrophysics
- Biology
- Botany
- Chemistry
- Computer Science
- Environmental Toxicology
- Mathematics
- Pharmacology
- Physics
- Structural Mechanics

Engineering Disciplines
- Aerospace
- Chemical
- Computer
- Electrical
- Material Science
- Mechanical
- Nuclear Systems
NAFP Benefits

**Faculty Fellows**
- Gain valuable knowledge of NASA’s scientific and technical needs
- Collaborate with NASA researchers
- Demonstrate research capabilities to NASA
- Enhance student research

**Employee Fellows**
- Gain valuable insight to help guide future NASA initiatives
- Collaborate with STEM Faculty, Administrators and Staff at MI’s
- Enhance teaching by applying research knowledge in the classroom
# NASA Center Participation with NAFP

<table>
<thead>
<tr>
<th>Center</th>
<th>NASA Employee</th>
<th>STEM Faculty</th>
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<tbody>
<tr>
<td>Ames Research Center</td>
<td>1</td>
<td>4</td>
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<tr>
<td>Dryden Space Flight Center</td>
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<td>Glenn Research Center</td>
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<td>Goddard Space Flight Center</td>
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<td>Jet Propulsion Laboratory</td>
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<td>Johnson Space Center</td>
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<td>Kennedy Space Center</td>
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<td>Langley Research Center</td>
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<tr>
<td>Marshall Space Flight Center</td>
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<tr>
<td>NASA Headquarters</td>
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<td>Stennis Space Center</td>
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NAFP Participation Rates

Number of Fellows

Cohort

STEM Faculty

NASA Employees
NAFP NASA Employee Fellows
Eligibility Requirements: NASA Employees

- U.S. Citizen
- Career NASA Employees at or above the GS-13 level
- Hold, at least, a Master’s degree in a STEM field
- Recommended by Center Director and Branch Chief or Directorate Head
- Willing to teach or conduct research at a Minority Serving Institution
- Employee fellows will retain their current salaries and status
- Return to the NASA for at least two years after the fellowship.
NAFP NASA Employee Accomplishments

- Created several curriculum initiatives, including the first Bachelor of Science degree in Engineering to be offered at a Tribal College
- Facilitated student participation in several STEM-based research projects, including the KC-135, BallonSat, and ATLAS Mission
- Promotions to GS 14 & 15, Project Managers and Team Leads after successful transition
- Enhanced research capacities and promoted sustainability at Minority Institutions
### NAFP Impacts the Aerospace Industry

<table>
<thead>
<tr>
<th>Organization</th>
<th># of Fellows</th>
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<tr>
<td>Cranfield University (Shivenham, UK)</td>
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<td>Moog, Inc.</td>
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<tr>
<td>National Research Council</td>
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<td>North Carolina State University</td>
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<td>Pratt and Whitney</td>
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<td>Sandia National Laboratories</td>
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<tr>
<td>Star Bridge Systems Inc.</td>
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<tr>
<td>The Boeing Company</td>
<td>2</td>
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<tr>
<td>U.S. Army Res. and Engineering Development Ctr</td>
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<tr>
<td>University of Florida</td>
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<tr>
<td>University of Southern Mississippi</td>
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<td>Veridian Engineering</td>
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NAFP STEM Faculty Fellows
Eligibility Requirements: STEM Faculty

- U.S. Citizen
- Full time, tenure-track faculty member of a Minority Serving Institution
- PhD, ScD, or equivalent (less than 20 years) in a STEM field OR have expertise in NASA-related field
- Recommended by Department Chair, Dean, AND President
- Fellow must return to his/her home institution in a teaching/research capacity for at least two years after the fellowship tenure
- Fellow may not serve as PI or Co-PI of any NASA research grant during fellowship tenure
- Faculty fellows remain on the institution’s payroll and the NAFP provides the institution with salary & benefits.
Several Fellows received the NAFP Faculty Research Award and returned to their home institutions with $50K in research funds.

Faculty fellows have been promoted to Associate Professors, Professors and Department Heads after a successful transition back to their home institution.

One fellow assisted in the development of 2 new Master’s level programs at a Minority Institution.
NAFP Impacts Minority Institutions

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<tr>
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<th>H.S.I.</th>
<th>T.C.U.</th>
<th>HBCU</th>
<th>OMI</th>
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<tbody>
<tr>
<td>Number</td>
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<td>25</td>
<td>10</td>
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Number of Minority Institutions
NAFP Outcomes

- NAFP Ranked #1 in NASA Evaluation (2005)

- Fellows use their NAFP experience to obtain additional research grants and fellowships.

- 10% of NAFP Fellows have gained national recognition and honors for their excellence in science, engineering and technology

- Establishment of the NAFP Women’s Consortium to mentor female STEM students (2005)

- NAFP fellows have established a formal mentoring relationship with Harriett G. Jenkins Pre-Doctoral Fellowship Program fellows
NAFP Spotlight Presentation

&

NAFP Fellow Experiences
Applying to the NAFP
Applying to the NAFP

**Deadline: January 21, 2008**

**Notification Date: April 1, 2008**

- Your application must include your proposed research/teaching plan.

- At least three (3) letters of endorsement from three specific individuals who can speak to the quality, fit and feasibility of the proposed research project.
Required Endorsements

**Endorsers for NASA Employee Applicants:**

- Center Director
- Branch Chief or Directorate Head
- Proposed Host MI Technical Mentor

**Endorsers for STEM Faculty Applicants:**

- President
- Chancellor, Provost, Department Head or Dean
- Proposed NASA Center Technical Mentor
Endorsement letters from the applicant's management should also confirm that the applicant will return to his/her position or an equivalent position at the conclusion of the NAFP tenure.

Two original letters of reference should be included in the application packet.

- Letters should speak to the applicant’s personal qualities, professional work ethic and professional capabilities.
NAFP Evaluation Criteria

- Applicant Ability, Experience & Training
- Proposed Plan of Research and/or Teaching
- Benefits of Participation
- Letters of Endorsement & Recommendation
Successful Application Strategies

- Start well in advance of the application deadline
- Make contacts ahead of time and build the case for your partnership
- Have good and well developed ideas
- Build enthusiasm and urgency
Successful Application Strategies (cont.)

- Highlight benefits for NASA and the institution(s)
- Have colleagues review the proposal with a critical eye
- Contact the program administrators to resolve questions and/or concerns
**DEADLINE: January 21, 2008**

To Access the Application, visit:

www.education.nasa.gov/edprograms/fellowgrants

For More Information:

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NASA Administrator’s Fellowship Program

QUESTIONS???

www.education.nasa.gov/edprograms/fellowgrants