

NASA MUREP Outcome Assessment: Principal Investigators (PIs)

As a Principal Investigator (PI) of a NASA MUREP-Funded Activity, you have been selected to take part in a brief questionnaire about your experiences. If you wish to participate in this survey, please select next page to continue. Thank you for your time and perspective.

Privacy Act Notification:

The information you provide via this form is protected from unauthorized disclosure in accordance with the Privacy Act of 1974. It will be used by NASA for the specific purpose of managing registrants, selecting applicants, implementing and evaluating STEM engagement investments. Collection of the information is authorized by the National Aeronautics and Space Act of 1958 § 403(a)(b), 42 U.S.C. § 2473 (c)(1). Provision of the requested information is strictly voluntary; however, failure to provide the information may result in NASA's inability to provide you with the information or STEM services you desire. NASA may disclose information to NASA administrators and managers, Office of Management and Budget officials, and members of Congress for the purposes of accountability and tracking of program and project efficiency and effectiveness. Elaboration and conditions of information disclosure may be found under "Routine Uses" of the full System of Records Notice at <https://www.govinfo.gov/content/pkg/PAI-2013-NASA/xml/PAI-2013-NASA.xml#10euda> and in Appendix B at <https://www.govinfo.gov/content/pkg/PAI-2013-NASA/xml/PAI-2013-NASA.xml#appb>.

Paperwork Reduction Act Statement:

This information collection meets the requirements of 44 U.S.C. §3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 2700-0159 and expires 09/30/2024.

Introduction: As a Principal Investigator of a NASA MUREP-funded program, you are part of a sample that has been selected to be invited to complete a brief questionnaire so that we can learn more about your experience, the program you managed, and the students your program engaged and their experiences and outcomes.

Description of Survey: The survey includes questions related to the NASA MUREP-funded program in which you manage, as well as questions associated with topics such as recruitment, retention, and the role of strategic partnerships.

Extent of Anonymity and Confidentiality: All the results of this study will be kept confidential. The study participants' names and contact information will be disassociated from responses to the survey. All data will be presented in aggregate. It is possible that the NASA Institutional Review Board (IRB) may view this study's collected data for auditing purposes. The IRB is responsible for the oversight of the protection of human subjects involved in research.

Freedom to Withdraw: As a participant, you are free to withdraw from a study at any time without penalty and you may choose to not answer any questions you deem unnecessary.

Risks: Participation in this research does not place you at more than minimal risk of harm.

Benefits: While there may be no direct benefit to you as a participant, results from this study will assist in ensuring that NASA MUREP activities leverage best practices that enhance academic and career outcomes for students attending Minority Serving Institutions and students from groups historically underrepresented and underserved in STEM.

Contact Information: Should you have any questions about this research or its procedures, you may contact the principal investigator of this project, Dr. Aime Black, at aime.t.black@nasa.gov.

Background

* 1. Please select your MUREP-Funded project from the list below.

2. Please briefly describe your MUREP-Funded project.

3. Please provide your institution's name.

4. Please select the NASA STEM engagement goals and objectives to which your project aligns. Please select all that apply.

- Strategic Goal 1.0:** Create unique opportunities for a diverse set of students to contribute to NASA's work in exploration and discover.
- Objective 1.1:** Provide student work experiences that enable students to contribute to NASA's missions and programs, embedded with NASA's STEM practitioners.
- Objective 1.2:** Create structured and widely accessible, experiential learning opportunities for students to engage with NASA's experts and help solve problems that are critical to NASA's mission.
- Strategic Goal 2.0:** Build a diverse future STEM workforce by engaging students in authentic learning experiences with NASA's people, content and facilities.
- Objective 2.1:** Develop and deploy a continuum of STEM experiences through authentic learning and research opportunities with NASA's people and work to cultivate student interest, including students from underrepresented and underserved communities, in pursuing STEM careers and foster interest in aerospace fields.
- Objective 2.2:** Design the portfolio of NASA STEM engagement opportunities to contribute toward meeting Agency workforce requirements and serving the nation's aerospace and relevant STEM needs
- Strategic Goal 3.0:** Attract diverse groups of students to STEM through learning opportunities that spark interest and provide connections to NASA's mission and work.
- Objective 3.1:** Develop and deploy targeted opportunities and readily available NASA STEM engagement resources and content, to attract students to STEM.
- Objective 3.2:** Foster student exposure to STEM careers through direct and virtual experiences with NASA's people and work.

5. What student population does your MUREP-Funded Activity primarily serve? Please select the best option.

- K-12 students
- Undergraduate students
- Graduate students
- Postgraduate students
- No students

6. In the past year how many student participants does your MUREP-Funded project include?

7. Are the majority of your student participants Hispanic or Latino?

- Hispanic or Latino
- not Hispanic or Latino
- roughly even
- percentages not sure

8. Do you have racial demographic percentages for your student participants?

-
- Yes
- No

Background

9. Please mark all race categories represented amongst your student participants.

American Indian or Alaska Native

Asian

Black or African American

Native Hawaiian or other Pacific Islander

White

Other (please specify)

Background

* 10. Please mark the race categories most well-represented amongst your student participants.

American Indian or Alaska Native

Asian

Black or African American

Native Hawaiian or other Pacific Islander

White

Other (please specify)

Background

11. Please provide the approximate percentage of student participants who identify as the following races

Asian

Black or African
American

Native Hawaiian or
other Pacific Islander

White

Other, please specify

12. Please provide any other comments about the demographic make-up of the student population your MUREP-Funded project serves

Student Recruitment

Please answer the following questions regarding Student Recruitment as it pertains to your NASA MUREP-Funded project.

13. The following is a list of evidence-based recruitment strategies. Please select all that you use to recruit students.

- Emails
- Professor Referrals
- Word of Mouth
- Events
- Websites
- Career Office
- STEM program or organization at your institution (e.g., TRIO, Upward Bound, clubs)
- Conference with NASA preference
- None of the above

Additional strategies not listed above, please explain.

14. Which recruitment strategies have been the most effective for your project?

15. Are you using specific strategies to recruit Underrepresented Minority (URM) student participants?

- No
- Yes, please describe

16. Are there specific strategies you have in place to try and retain student participants?

- No
- Yes, please describe

Strategic Partnerships

17. Does your MUREP-Funded project have strategic partnerships in place?

Yes

No

Strategic Partnerships

18. What types of strategic partnerships are in place for your project? (Please select all that apply)

- Government Entity Partnerships [e.g., NASA, US Department of Education, State Department of Education, National Science Foundation]
- Institutional Partnerships [e.g., other universities, community colleges, etc.]
- Organizational/Community Partnerships [e.g., Boys and Girls Club, etc.]
- Business/Industry Partnerships [e.g., local business or industry]
- Other (please specify)

19. What programmatic goals are associated with your strategic partnership(s)? Please select all that apply.

- Build research capacity
- Create unique work experiences
- Product design
- Professional development
- Other (please describe)

20. Are your strategic partnerships directly aligned to broadening participation of students from underrepresented and underserved communities?

Yes

No

Strategic Partnerships

21. Please explain how your strategic partnerships help you to broaden participation of students from underserved and underrepresented communities?

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Strategic Partnerships

22. The following table lists research-based practices that may lead to effective strategic partnerships. Please rate how effective each of these practices has been in supporting/building strategic partnerships? If you have not used this practice, please select the “Not Applicable” option.

	Highly Effective	Effective	Partially Effective	Ineffective	Not Applicable
An articulated mission and shared beliefs exist to serve as guides for the work of the partnership(s)?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clear, measurable, and feasible shared	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Identified shared partnership needs and priorities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/> partnership goals. Articulated and concrete action steps to accomplish short- and long-term goals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sufficient resources (time, people, finances) to support partnership efforts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Specified timelines, roles, responsibilities, and expected outcomes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The partnership uses strategies and practices found to be effective in research that promote continuous improvement.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Measures for assessing progress tightly align to partnership goals and strategic action plans.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. Do you track the number of student participants transitioning to the STEM workforce?

Yes

No

24. Describe if/how student participant transitions to the STEM workforce are related to project strategic partnerships (e.g., prior students being employed by a partner)?

/s/

25. Please provide a brief summary of how the COVID-19 Pandemic affected your MUREP- Funded project and/or students, if applicable.

/s/

End of Survey

Thank you for participating in our survey. We greatly appreciate your time and feedback.