

NASA Glenn Research Center Out of School Learning Network Award Solicitation (NOSL Network)

All applications due on or before July 25, 2016 at:

<http://goo.gl/forms/O6yJi2ku4kNCKbtn1>

The purpose of the NASA Glenn Research Center (GRC) Out of School Learning (NOSL) Network is to offer project-based STEM learning experiences that connect NASA scientists, engineers, and mission content with out-of-school time (OST) programs. The NOSL Network includes a time-tested model of evidence-based strategies to increase STEM engagement among middle school students. Although the NOSL Network is a new effort, it will build upon evidence-based practices, lessons learned, and evaluation results from legacy NASA educational projects.

Program Description

NASA GRC Out of School Learning Network (NOSL Network) leverages a proven STEM engagement model and evidence-based strategies to build capacity of Youth Serving Organizations (YSO's) and formal and informal education institutions (such as museums) to implement quality STEM education programming in OST settings. The curriculum modules will include: engineering design challenges, inquiry-based lessons and resources, and citizen science recommendations. The content focus in the four modules range from:

- Space Explorers (Earth and space science and physical science)
- Rockets Rock (engineering and physical science)
- Living and Working in Space (engineering and life science)
- Aeronautics (engineering and physical science)

The program will offer the following:

- Project-based STEM learning experiences themed to real NASA missions
- Opportunities for teachers/ facilitators to participate and receive training on how to use those experiences
- Extension activities for family engagement
- Opportunities for students to speak directly with NASA scientists and engineers
- Up to \$4,000 in seed money to establish an out-of-school time (OST) program (Place based learning opportunity)
- Follow-up support throughout your implementation via phone/e-mail

Awardee Requirements

NASA Glenn Research Center (GRC) is soliciting applications for formal/informal education institutes in GRC's six state region (IL, IN, MI, MN, OH, WI) and previous NASA partners to participate in its pilot of the NOSL Network. Participation is granted through the application

process and not all participants will be awarded funding. Funding awards are dependent on eligibility and level of compliance with the requirements. Funding awards are competitive and are to be used as start-up money to implement the program. Additionally, funding will not exceed \$4,000 per site. Award applications will be scored based on Organizational Information, Anticipated Attendees, and a Budget Description.

Eligibility requirements:

The proposed program must:

- Be out-of-school time focused where all learning activities occur outside of the normal school day (e.g., After school, Saturday)
- Be located in GRC's six state region (IL, IN, MI, MN, OH, WI) or be a previous NASA partner
- Focus on recruiting underrepresented/underserved students
- Service students in the middle grades (4-9)
- Provide students with at least 30 hours of NOSL content/activities
- Occur between September 1, 2016 and May 31, 2017

Organizations must agree to participate in the following engagement activities:

- Teachers/facilitators participate in at least one NASA provided face-to-face or virtual training session
- Facilitate student participation in at least one virtual connection where students have an opportunity to interact directly with NASA scientists/engineers (using Google Hangouts and/or Adobe Connect)

Organizations must agree to allow the following data collection activities:

- Permit NASA to observe students engaged in the required STEM learning activities and allow NASA to conduct interviews and/or focus groups of teachers/facilitators
- Provide a final data report at conclusion of the program (see application for details)

Awards Distribution:

Awards letters will be issued after August 10, 2016 and will provide details regarding training and implementation.

Please complete the application at: <http://goo.gl/forms/O6yJi2ku4kNCKbtn1>

If you have any questions:

E-mail: grc-nosl@mail.nasa.gov

Call: Sonya Williams (216) 433-3999