Your proposed program must fit into one of the following NASA Education Outcomes:

**Outcome 1:** *Contribute to the development of the STEM workforce in disciplines needed to achieve NASA’s strategic goals (Employ and Educate) through a portfolio of investments.*

- In accordance with Outcome 1, the PSGC funds **fellowships and scholarships** to high performing undergraduate and graduate students in STEM disciplines. This includes student internships at NASA centers and other industry partners.

- Funding is provided to **higher education programs**, both undergraduate and graduate level. We emphasize hands-on space-hardware laboratories and other research related student support (exclusive of fellowships/scholarships). And, to a lesser degree, PSGC funds curriculum development, design and implementation of new major and minor areas of study.

- The PSGC also supports **research infrastructure projects**, which provides funding to an institution to enhance its ability to capitalize on high quality research projects or programs. This includes providing funding that may lead to other research grants in NASA-relevant areas. Exclusive of fellowship awards, this funding may also encompass research related graduate student support.

**Outcome 2:** *Attract and retain students in STEM disciplines through a progression of educational opportunities for students, teachers, and faculty (Educate and Engage).*

- Outcome 2 pertains to funding for **pre-college** (K-12) educators and students. The emphasis should be on the development of pre-service and/or in-service educators in the formal and informal educational arenas. Proposed student-based programs must demonstrate quantitatively how the program will increase enrollment in science, technology, engineering, and mathematics (STEM).

**Outcome 3:** *Build strategic partnerships and linkages between STEM formal and informal education providers that promote STEM literacy and awareness of NASA’s mission (Engage and Inspire).*

- The PSGC collaborates with museums, science centers and other **informal education** organizations to inspire and engage students and bring the excitement of NASA to the general public.
The following objectives have been developed under each of the NASA Education Outcomes above. All NASA programs (including Space Grant, from the national level) will report their contributions to these objectives.

**Outcome 1 Objectives**
1.1 Faculty and Research Support – Provide NASA competency-building education and research opportunities for faculty, researchers, and post-doctoral fellows.
1.2 Student Support – Provide NASA competency-building education and research opportunities to develop qualified undergraduate and graduate students who are prepared for employment in STEM disciplines at NASA, industry, and higher education.
1.3 Student Involvement Higher Education – Provide opportunities for groups of post-secondary students to engage in authentic NASA-related mission-based R&D activities.
1.4 Course Development – Develop NASA-related course resources for integration into STEM disciplines.
1.5 Targeted Institution Research and Academic Infrastructure – Improve the ability for targeted institutions to compete for NASA research and development work.

**Outcome 2 Objectives**
2.1 Educator Professional Development—Short Duration – Provide short duration professional development and training opportunities to educators, equipping them with the skills and knowledge to attract and retain students in STEM disciplines.
2.2 Educator Professional Development—Long Duration – Provide long-duration and/or sustained professional development and training opportunities to educators that result in
deeper content understanding and/or competence and confidence in teaching STEM disciplines.

2.3 Curricular Support Resources – Provide curricular support resources that use NASA themes and content to a) enhance student skills and proficiency in STEM disciplines; b) inform students about STEM career opportunities; c) communicate information about NASA’s mission activities.

2.4 Student Involvement K-12
   o Provide K-12 students with authentic first-hand opportunities to participate in NASA mission activities, thus inspiring interest in STEM disciplines and careers
   o Provide opportunities for family involvement in K-12 student learning in STEM areas.

Outcome 3 Objectives
3.1 Resources
   o Provide informal education support resources that use NASA themes and content to 1) enhance participant skills and proficiency in STEM disciplines; 2) inform participants about STEM career opportunities; 3) communicate information about NASA’s mission activities
   o Develop a significant pool of qualified presenters of NASA aerospace content interacting with a large number of participants.

3.2 Professional Development for Informal Education Providers – Provide opportunities to improve the competency and qualifications of STEM informal educators, enabling informal educators to effectively and accurately communicate information about NASA activities and access NASA data for programs and exhibits.

3.3 Informal Education Provider Involvement Opportunities
   o Develop a national pool of qualified informal educators with experience in NASA-mission and related activities
   o Engage informal educators using NASA themes to enable them to 1) enhance participant skills and proficiency in STEM disciplines; 2) inform participants about STEM career opportunities; 3) communicate information about NASA’s mission activities.
   o Establish and maintain a single informal education network for accessing NASA materials that has the flexibility for Special Interest Groups to function as a subset of the larger network.