NASA’s Education and Research Opportunities for Students and Faculty

Jianping Yue
Essex County College

Abstract

One of National Aeronautics and Space Administration (NASA)’s missions is “to inspire the next generation of explorers.” For nearly half a century, NASA has not only made extraordinary achievements in space exploration and technology advancement, but also developed many education and research programs to inspire young Americans from grades K-12 to college undergraduate and graduate students, especially those majoring in science, technology, engineering, and mathematics. There are also many programs that support the participation of college professors. This paper describes some of NASA’s representative education and research programs such as the Undergraduate Student Research Program, Graduate Student Researchers Program, Jenkins Predoctoral Fellowship Program, Faculty Fellowship Program, Administrator’s Fellowship Program, KC135 Reduced Gravity Student Flight Opportunities Program, K-12 Student Involvement Program, etc. This paper also introduces a variety of other NASA’s education and research programs.

1. Introduction

Since its inception in 1958, National Aeronautics and Space Administration (NASA) has made extraordinary achievements in space exploration and technology advancement. NASA’s overall program is composed of six strategic enterprises: Aerospace Technology, Biological and Physical Research, Earth Science, Education, Space Science, and Space Flight. NASA’s mission is to “understand and protect our home planet, to explore the universe and search for life, to inspire the next generation of explorers … as only NASA can.” Education is always an important and integral part of NASA. NASA has developed many education programs not only for recruiting talents for its workforce, but also for inspiring the next generation. NASA’s education programs range from grades K-12 to college undergraduate and graduate students, especially those majoring in science, technology, engineering, and mathematics (STEM). NASA also offers many research opportunities for college professors. Due to limited space, this paper only introduces a small selection of the many NASA education programs and research opportunities. Interested readers should browse NASA’s and other related websites to find more information.
2. NASA Education Programs for Undergraduate Students

2.1. NASA Undergraduate Student Research Program

The NASA Undergraduate Student Research Program (USRP) provides a unique research opportunity for undergraduate students. The students will spend 10 weeks at a NASA research center during summer (for some students, 15 weeks during fall) and receive a stipend of $5,000 ($7,500 for 15 weeks) plus paid trip to the center. Applicants must be a rising junior or senior and major in engineering, mathematics, computer science, or physical/life sciences. Community college students may also apply as long as they are matriculating into a four-year university in the fall. Application deadline is in late January and the announcement of winners will be made in early April. The program is managed by Virginia Space Grant Consortium located at Old Dominion University in Hampton, Virginia, and detailed information is on the website www.vsgc.odu.edu. Applicants must submit their application online, as well as via postal mail.

2.2. National Space Grant College Fellowship Program

The National Space Grant College Fellowship Program (also known as Space Grant) was established by NASA in 1989 to support and enhance science and engineering education, research, and public outreach programs. Space Grant consists of 52 statewide consortia in all 50 states, the District of Columbia, and Puerto Rico with over 820 affiliates, including 531 academic institutions. In 2001, Space Grant awarded over 2,300 scholarships and fellowships to undergraduate and graduate students averaging $4,000 ($2,000 for undergraduate students and $10,000 for graduate students). Approximately 20% of the students receiving the grant were from underrepresented groups in science and engineering, and approximately 40% of the recipients were women. The scholarships and fellowships are managed by each state consortium and detailed information can be obtained through Space Grant’s website http://calspace.ucsd.edu/spacegrant.

Space Grant also sponsors the NASA Academy for undergraduate students of the member institutions. NASA Academy is a ten-week summer program at several NASA centers. Participants work as research associates on projects under the guidance of NASA scientists. NASA Goddard Space Flight Center in Greenbelt, Maryland, and Ames Research Center in Moffett Field, California have maintained regular Academy programs. The Goddard Academy was established in 1993. On average, 23 students yearly have participated in Goddard Academy 1. The NASA Astrobiology Academy at Ames Research Center was incepted in 1997 with approximately 13 participants each year 2. Application deadline is January 31, and applications must be filed online at www.nasa-academy.nasa.gov.
3. NASA Education and Research Programs for Graduate and Postdoctoral Students

3.1. NASA Graduate Student Research Program

The NASA Graduate Student Research Program (GSRP) was initiated in 1980 to cultivate research ties with the academic community and broaden the base of students pursuing advanced degrees in science, mathematics, and engineering. The program awards approximately 300 graduate students annually each with an educational grant of $24,000, which includes an $18,000 student stipend, a $3,000 student allowance, and a $3,000 university allowance. The awards are renewable for up to 3 years. Application deadline is in early spring, and the announcement of awardees is made by the end of June each year. Applicants must submit their applications online at http://fellowships.hq.nasa.gov, as well as mail in required documents. Undergraduate seniors who have been accepted to a graduate school can also apply. All applicants must be U.S. citizens, study in the field of science, mathematics, and engineering, and identify a faculty advisor.

The GSRP program also jointly manages the NASA Earth System Science Fellowship Program (ESSFP), which annually supports 15 graduate students to pursue master and doctoral degrees in earth system science. The program was incepted in 1990 and formerly the Global Change Research Fellowship Program and the Earth Science Graduate Student Research Program. The award is similar to the GSRP award, except that the application deadline is on March 15.

In 2003, 322 graduate students from nearly 120 colleges and universities received the GSRP awards (including the ESSFP awards). Among them, the institutions that have the most awardees are the University of Colorado at Boulder, the University of Michigan, and Georgia Institute of Technology, which have 23, 13, and 11 awardees respectively.

3.2. NASA Research Associateship Programs

NASA has participated in the Research Associateship Programs (RAP) administered by the National Research Council (NRC). RAP was established in 1954 to provide postdoctoral and senior research awards at participating federal laboratories. The awardees of NASA/RAP will do one-year research at NASA centers, and the number of recipients varies from year to year. There were 76 postdoctoral students who received the RAP awards to work at NASA centers in 2002. The stipend of the RAP associateship starts at $46,500 plus geographic adjustment and other supplements. There are multiple application deadlines, which are February 1, May 1, August 1, and November 1. Detailed information is on NRC’s website http://www4.nationalacademies.org/pga/rap.nsf.

NASA established in 1997 the NASA Astrobiology Institute (NAI), which is a consortium of three NASA research centers, ten universities, and three research institutions currently. NAI not only awards six additional postdoctoral fellowships annually through RAP, but also provides
other research scholarships and funding opportunities (Table 1). Application deadlines for NAI/RAP are February 1 and August 1, and detailed information is on NAI’s website http://nai.arc.nasa.gov.

4. NASA Research Opportunities for Faculty

NASA’s research opportunities for college professors include summer programs and research grants. NASA makes announcements for current research funding opportunities for faculty online at www.nasa.gov/about/research.

4.1. NASA Faculty Fellowship Program

The NASA Faculty Fellowship Program (NFFP) provides research opportunities for science and engineering faculty. The faculty fellows spend 10 weeks during summer at NASA research centers working with NASA scientists and getting hands-on exposure to NASA’s research challenges. Some faculty may continue for a second summer or follow-on research opportunities. NFFP fellows receive a stipend of $12,000 and relocation allowance. The program is managed by the American Society for Engineering Education (ASEE) and the Universities Space Research Association (USRA). Application deadline is in early February. Detailed information and application instructions are on the website www.asee.org/nffp.

4.2. NASA Experimental Program to Stimulate Competitive Research

The NASA Experimental Program to Stimulate Competitive Research (EPSCoR) provides funding to states with modest research infrastructure to develop a more competitive research base within their member academic institutions. NASA EPSCoR was established in 1994 and is working in tandem with NASA Space Grant. It provides $125K-$700K annually to each of the eligible 19 states, including Alabama, Arkansas, Connecticut, Idaho, Kansas, Kentucky, Louisiana, Maine, Mississippi, Montana, Nebraska, Nevada, North Dakota, Oklahoma, South Carolina, South Dakota, Vermont, West Virginia, and Wyoming, as well as Puerto Rico. Detailed information is on the website http://calspace.ucsd.edu/epscor.

5. NASA Special Programs for Minority Students and Faculty

In order to promote the success of minority students and faculty in Science, Technology, Engineering, and Mathematics (STEM) programs and ensure the diversity of its workforce, NASA offers several special programs for minority institutions through the United Negro College Fund Special Programs Corporation (UNCFSP). These programs include the Jenkins Predoctoral Fellowship Program (JPFP), the NASA Administrator’s Fellowship Program (NAFP), the Curriculum Improvement Partnership Awards (CIPA), and the University Research Centers (URC). The minority institutions (MIs) include Historically Black Colleges and Universities (HBCUs), Hispanic-Serving Institutions (HSIs), Tribal Colleges and Universities.
(TCUs), and other minority institutions (OMIs) in which the enrollment of underrepresented minority groups (single or combined) exceeds 50% of the total student enrollment. A list of minority institutions is published by the U. S. Department of Education \(^5\) and can be accessed online at [www.ed.gov/about/offices/list/ocr/edlite-minorityinst.html](http://www.ed.gov/about/offices/list/ocr/edlite-minorityinst.html).

5.1. Jenkins Predoctoral Fellowship Program

The Jenkins Predoctoral Fellowship Program (JPFP) provides opportunities for women, minority, and disabled STEM students to pursue doctoral degrees. Each year, the program awards 20 graduate students currently attending an accredited master’s or doctoral program. The three-year fellowship includes a stipend of up to $22,000 per year, a tuition allowance of up to $8,500 per year, and summer research opportunity at an NASA research center, which provides a $6,000 stipend, a $700 housing allowance, and a $700 travel allowance for 6 weeks.

The JPFP program was established in 2000 and named in honor of Dr. Harriett G. Jenkins, a former Assistant Administrator for Equal Opportunity Programs at NASA. Dr. Jenkins, an African-American woman herself, devoted herself to promoting the employment and successes of women and minority at NASA. From 2001 to 2003, a total of 71 graduate students (35 female) from 35 schools have received the JPFP fellowships \(^6\) and some of them have already successfully completed their Ph.D. degrees.

Applicants for the JPFP must be U.S. citizens and maintain a minimum accumulative GPA of 3.00 on a 4.00 scale. Undergraduate seniors who are applying for graduate schools can also apply for the fellowship. Application deadline is February 1, and the application package is downloadable online from [www.uncfsp.org/jenkinscsp](http://www.uncfsp.org/jenkinscsp).

5.2. NASA Administrator’s Fellowship Program

The NASA Administrator’s Fellowship Program (NAFP) provides professional development opportunities for both NASA scientists and STEM faculty of minority institutions. Each year, the program awards up to six NASA scientists to teach or enhance curricula at minority-serving institutions, and up to six STEM faculty to do one-year research at NASA centers. NASA compensates the faculty fellows’ salary and benefits through their institutions. The faculty fellows will also have the chance to continue their research with NASA after they are back at their home institutions.

Since the inception of the program from 1997 to 2003, NAFP has awarded a total of 24 faculty (9 women) from 18 minority institutions, including 13 HBCUs, 3 HSIs, and 2 OMUs (1 community college) \(^7\). Application deadline is March 1. The application package can be downloaded online from the website [www.uncfsp.org/nasa/nafp](http://www.uncfsp.org/nasa/nafp), but completed applications must be sent via postal mail.
5.3. Curriculum Improvement Partnership Awards

The NASA Curriculum Improvement Partnership Awards (CIPA) Program is an undergraduate curriculum improvement program for minority-serving institutions including HBCU, HSI, TCU, and OMI colleges and universities. The CIPA grant provides up to $100,000 annually for three years to enhance innovative learning in STEM curricula. From 1999 to 2003, 37 institutions (14 HBCUs, 15 HSIs, 5 TCUs, and 3 OMIs) have received CIPA grants. Of these institutions, 20 are four-year colleges and universities and 17 are two-year community colleges. The proposal is due in June and the announcement is made in September. Application package can be downloaded online from www.uncfsp.org/cipa.

6. NASA Education Programs for Grades K-12

As stated in NASA’s mission, in order to “inspire the next generation of explorers,” NASA has created a wide spectrum of education programs to provide opportunities for all levels of education including grades K-12.

6.1. NASA Student Involvement Program

The NASA Student Involvement Program (NSIP) attracts children and teenagers from grades K-12 and links them directly with NASA's diverse and exciting missions of exploration, research, and discovery. The NSIP program organizes national competitions annually in six areas, including My Planet, Earth; Science and Technology Journalism; Aerospace Technology Engineering Challenge; Design a Mission to Mars … and Beyond; Watching Earth Change; and Space Flight Opportunities. These competitions cover a wide range from scientific investigations to design challenges and are designed to draw the interests from various age groups.

The awards include free trips to visit a NASA center, scholarships to attend a space camp in the summer, and chances to have the student-designed flight experiments onboard the space shuttle! Winners are selected in each competition area from different grades groups (K-1, 2-4, 5-8, and 9-12) by participating NASA centers in their regions. Nearly 3,500 students around the country participated in the NSIP program in 2003.

Space Flight Opportunities projects are due on January 15, and the other competition categories are due on January 31. The winners are announced in May. Detailed information and competition guidelines are available on the website www.nsip.net.

6.2. NASA Summer High School Apprenticeship Research Program

The NASA Summer High School Apprenticeship Research Program (SHARP) is designed to promote the participation and success of underrepresented minority students (female, minority,
and disabled) in STEM and geography. Each year, about 400 rising junior and senior high school students are selected to spend eight weeks during summer either at a NASA research center or at a participating college. Selected students are exposed to the state-of-the-art research environments under mentorship. The program was incepted in 1992 and is managed by the Modern Technology Systems, Inc. Detailed information and the application form can be downloaded from the website www.nasasharp.com. Application deadline is on the second Monday in February.

7. The Education and Research Programs Sponsored by NASA Centers

Over the years, NASA research centers have established and maintained a variety of education programs, and most of these center programs are nationwide.

7.1. Summer Research Programs

The Langley Aerospace Research Summer Scholars (LARSS) program offered by NASA Langley Research Center (LaRC) at Hampton, Virginia provides $4,500 for a ten-week summer research opportunity for undergraduate junior, senior, and first-year graduate students not only in science and engineering but also in other majors (Table 1).

In 2000, NASA Goddard Space Fight Center (GSFC) in Greenbelt, Maryland, created the Goddard Earth Science and Technology Center (GEST) on the campus of the University of Maryland at Baltimore County (UMBC). GEST provides several summer programs for undergraduate and graduate students including the Graduate Student Summer Program in Earth System Science (GSSP), Goddard Coastal Research Graduate Fellowship Program (GCR), Visiting Student Enrichment Program (VSEP), and NASA Summer School for High Performance Computational Earth and Space Sciences (HPC). GSSP awards 10 graduate students in earth science and related disciplines. VSEP awards 20 high school, undergraduate, and graduate students interested in or majoring in computer science, physical science, and mathematics. Both GSSP and VSEP provide a ten-week paid research opportunity at GSFC with transportation and housing. They are also open to foreign students with permanent residency or a valid student visa. GCR offers a ten-week summer resident research opportunity at NASA Wallops Flight Facility in Virginia for two graduate students in physical and biological oceanography and related fields. HPC offers 15 doctoral candidates a three-week lecture series in computational earth and space sciences at GSFC. Application deadlines are late February for GSSP, GCR, and HPC, and late January for VSEP. Detailed program information is available on the website http://gest.umbc.edu.

7.2. Student Competitions

The KC135 Reduced Gravity Student Flight Opportunities Program is hosted by NASA Johnson Space Center in Houston, Texas. KC135 is NASA’s microgravity aircraft that has been used to
train astronauts. In this two-semester program, teams of undergraduate students design and build microgravity experiments and fly them on KC135. For 2004 competition, a total of 69 teams from 45 universities and colleges have been selected. Among them, Purdue University, Texas A & M University, and the University of Texas at Austin have five teams each. Proposals for the competition are due in October, and flights are arranged from March to July. The details of the program are on the website at http://microgravityuniversity.jsc.nasa.gov.

NASA Langley Research Center (LaRC) hosts aerospace vehicle design competitions. The Revolutionary Vehicles: Concepts and Systems University Student Competition is divided into five sectors: subsonic transport, supersonic aircraft, personal air vehicles, runaway independent aircraft, and unmanned aerial vehicles. Another competition is the Design a Flying Car! High School Student Competition. The submission deadline is April 1 for both competitions. In addition to cash awards and activities, winning vehicle designs will be considered for reproduction as a model and given to the school as memento. More information about the competitions is on the website http://avst.larc.nasa.gov.

8. Summary of NASA’s Education and Research Programs

As a government agency, NASA offers many government-sponsored educational programs. These programs include internships such as the Federal Career Intern Program, the Presidential Management Intern (PMI) Program; cooperative education programs such as the Student Career Experience Program (SCEP); and other programs such as the Student Temporary Employment Program (STEP). Most of these programs are managed by the ten NASA research centers, and more information can be found on the centers’ websites.

The NASA Contracting Intern Program (NCIP) also recruits recent college graduates with degrees in business related fields from targeted colleges and universities (Table 1).

A summary of the selected NASA’s education and research programs is listed in Table 1 and Table 2.

Acknowledgements

The author would like to thank NASA Administrator’s Fellowship Program (NAFP) and NASA Langley Research Center for providing him the opportunity to write this paper. Currently, the author is a NASA Administrator’s Fellow at NASA Langley Research Center in Hampton, Virginia. He is on a one-year leave from Essex County College in Newark, New Jersey. NAFP is sponsored by NASA and managed by the United Negro College Fund Special Programs Corporation. However, the author is solely responsible for the content of this paper.
Bibliography

2. http://academy.arc.nasa.gov

JIANPING YUE

Jianping Yue is an Associate Professor in the Department of Engineering Technologies and Computer Sciences at Essex County College in Newark, New Jersey. Currently, he is a NASA Administrator’s Fellow at NASA Langley Research Center in Hampton, Virginia. Dr. Yue received his B.S. and M.S. degrees in Hydraulic and Coastal Engineering from Wuhan University, China, in 1977 and 1982, and a Ph.D. degree in Civil Engineering from the University of Memphis, Memphis, Tennessee in 1990.
Table 1. NASA’s Education and Research Programs for Undergraduate and Graduate Students

<table>
<thead>
<tr>
<th>Program</th>
<th>Applicants</th>
<th>Awards/Stipend</th>
<th>Number</th>
<th>Duration</th>
<th>Deadline</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Undergraduate Student Research Program (USRP)</td>
<td>Junior or senior undergraduate students majoring in engineering, mathematics, computer science, or physical/life sciences</td>
<td>Up to $7,500 plus transportation</td>
<td>10 weeks in summer or 15 weeks in fall</td>
<td>January</td>
<td><a href="http://www.vsgc.odu.edu">www.vsgc.odu.edu</a></td>
<td></td>
</tr>
<tr>
<td>NASA Graduate Student Research Program (GSRP)</td>
<td>Graduate students and undergraduate seniors who have been accepted to graduate school in the fields of science, mathematics, and engineering</td>
<td>$24,000/yr ≈ 300 Renewable up to 3 years</td>
<td>Early Spring</td>
<td><a href="http://fellowships.hq.nasa.gov">http://fellowships.hq.nasa.gov</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jenkins Pre-doctoral Fellowship Program (JPFP)</td>
<td>Women, minority, and disabled STEM graduate students and undergraduate seniors who have been accepted to graduate school</td>
<td>Up to $37,900/yr</td>
<td>20</td>
<td>3 years</td>
<td>Feb. 1</td>
<td><a href="http://www.ucfsp.org/jenkinsesp">www.ucfsp.org/jenkinsesp</a></td>
</tr>
<tr>
<td>NASA Contracting Intern Program (NCIP)</td>
<td>College graduates with degrees in a business related field from targeted institutions</td>
<td>Start at GS-7 &amp; 9 for bachelor &amp; master degrees</td>
<td>Varies 30 months</td>
<td><a href="http://www.hq.nasa.gov/office/procurement/co-op">www.hq.nasa.gov/office/procurement/co-op</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Langley Aerospace Research Summer Scholars (LARSS)</td>
<td>Undergraduate junior and senior, and first-year graduate students</td>
<td>$4,500</td>
<td>≈ 125</td>
<td>10 weeks in summer</td>
<td>Feb. 2</td>
<td><a href="http://edu.larc.nasa.gov/larss">http://edu.larc.nasa.gov/larss</a></td>
</tr>
<tr>
<td>NASA/NRC Research Associateship Program (RAP)</td>
<td>Postdoctoral students</td>
<td>Starts at $46,500</td>
<td>Varies 1 year</td>
<td>Feb. 1, May 1, Aug. 1, Nov. 1</td>
<td><a href="http://www4.nas.edu/pga/rap.nsf">http://www4.nas.edu/pga/rap.nsf</a></td>
<td></td>
</tr>
<tr>
<td>NASA Astrobiology Institute (NAI) Postdoctoral Program/NRC Research Associateship Program (NAI/RAP)</td>
<td>Postdoctoral students</td>
<td>Start at $45,000</td>
<td>6</td>
<td>1 year &amp; renewable</td>
<td>Feb. 1 Aug. 1</td>
<td><a href="http://nai.arc.nasa.gov">http://nai.arc.nasa.gov</a></td>
</tr>
</tbody>
</table>

Note: All applicants must be U.S. citizens except for RAP, GSSP and VSEP. STEM stands for Science, Technology, Engineering, and Mathematics.
<table>
<thead>
<tr>
<th>Program</th>
<th>Applicants</th>
<th>Awards/Stipend</th>
<th>Number</th>
<th>Duration</th>
<th>Deadline</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Astrobiology Institute (NAI) Research Scholarship Program</td>
<td>Graduate and postdoctoral students of the participating institutions of NAI</td>
<td>$5,000</td>
<td>8</td>
<td>1 year</td>
<td>Feb. 1, June 1, Oct. 1</td>
<td><a href="http://nai.arc.nasa.gov">http://nai.arc.nasa.gov</a></td>
</tr>
<tr>
<td>National Space Grant College and Fellowship Program</td>
<td>Undergraduate and graduate students</td>
<td>Average $4,000</td>
<td>(\approx 2,300) each year</td>
<td></td>
<td></td>
<td><a href="http://calspace.ucsd.edu/spacegrant">http://calspace.ucsd.edu/spacegrant</a></td>
</tr>
<tr>
<td>NASA Earth System Science Fellowship Program</td>
<td>Graduate students in earth system science</td>
<td>$24,000/year</td>
<td>15</td>
<td>Renewable up to 3 years</td>
<td>Mar. 15</td>
<td><a href="http://fellowships.hq.nasa.gov">http://fellowships.hq.nasa.gov</a></td>
</tr>
<tr>
<td>Graduate Student Summer Program in Earth System Science (GSSP)</td>
<td>Graduate students in earth science and related disciplines</td>
<td>$4,800 plus travel and housing</td>
<td>10</td>
<td>10 weeks</td>
<td>Feb. 27</td>
<td><a href="http://gest.umbc.edu">http://gest.umbc.edu</a></td>
</tr>
<tr>
<td>Goddard Coastal Research Graduate Fellowship Program (GCR)</td>
<td>Graduate students in physical and biological oceanography and related disciplines</td>
<td>$4,800 plus travel and housing</td>
<td>2</td>
<td>10 weeks</td>
<td>Feb. 27</td>
<td><a href="http://gest.umbc.edu">http://gest.umbc.edu</a></td>
</tr>
<tr>
<td>Visiting Student Enrichment Program (VSEP)</td>
<td>High school, undergraduate, and graduate students</td>
<td>Compensations vary plus travel and housing</td>
<td>20</td>
<td>10 weeks</td>
<td>Jan. 30</td>
<td><a href="http://gest.umbc.edu">http://gest.umbc.edu</a></td>
</tr>
<tr>
<td>NASA Summer School for High Performance Computational Earth and Space Sciences (HPC)</td>
<td>Doctoral candidates in earth and space sciences</td>
<td>$1,440 plus travel and housing</td>
<td>15</td>
<td>3 weeks</td>
<td>Feb. 27</td>
<td><a href="http://gest.umbc.edu">http://gest.umbc.edu</a></td>
</tr>
<tr>
<td>Revolutionary Vehicles: Concepts and Systems University Student Competition</td>
<td>Undergraduate students</td>
<td>Cash, certificates, and reproduction of the design model</td>
<td></td>
<td></td>
<td>Apr. 1</td>
<td><a href="http://avst.larc.nasa.gov">http://avst.larc.nasa.gov</a></td>
</tr>
<tr>
<td>KC135 Reduced Gravity Student Flight Opportunities Program</td>
<td>Undergraduate students</td>
<td>Design and flight experiments on KC135 (\approx 70) teams</td>
<td>2 semesters</td>
<td>October</td>
<td><a href="http://microgravityuniversity.jsc.nasa.gov">http://microgravityuniversity.jsc.nasa.gov</a></td>
<td></td>
</tr>
<tr>
<td>NASA Academy</td>
<td>Junior &amp; senior undergraduate students of the Space Grant member institutions</td>
<td>$6,600</td>
<td>(\approx 36)</td>
<td>10 weeks</td>
<td>Mar. 31</td>
<td><a href="http://www.nasa-academy.nasa.gov">www.nasa-academy.nasa.gov</a></td>
</tr>
</tbody>
</table>

Note: All applicants must be U.S. citizens except for RAP, GSSP and VSEP. STEM stands for Science, Technology, Engineering, and Mathematics.
<table>
<thead>
<tr>
<th>Program</th>
<th>Applicants</th>
<th>Stipend/Grant</th>
<th>Number</th>
<th>Duration</th>
<th>Deadline</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Faculty Fellowship Program (NFFP)</td>
<td>Science and engineering faculty</td>
<td>$12,000 plus relocation allowance</td>
<td>≈ 255</td>
<td>10 weeks</td>
<td>February</td>
<td><a href="http://www.asee.org/nffp">www.asee.org/nffp</a></td>
</tr>
<tr>
<td>NASA Administrator’s Fellowship Program (NAFP)</td>
<td>STEM faculty of minority institutions</td>
<td>Salary plus relocation allowance</td>
<td>6</td>
<td>1 year</td>
<td>Mar. 1</td>
<td><a href="http://www.ucfsp.org/nasa/nafp">www.ucfsp.org/nasa/nafp</a></td>
</tr>
<tr>
<td>NASA Curriculum Improvement Partnership Awards (CIPA)</td>
<td>STEM faculty of minority institutions</td>
<td>Up to $100,000/yr relocation allowance</td>
<td>≈ 10</td>
<td>3 years</td>
<td>June 20</td>
<td><a href="http://www.ucfsp.org/cipa">www.ucfsp.org/cipa</a></td>
</tr>
<tr>
<td>NASA Experimental Program to Stimulate Competitive Research (EPSCoR)</td>
<td>Participating academic institutions in 19 states &amp; Puerto Rico</td>
<td>$125-$700 annually per state</td>
<td></td>
<td></td>
<td></td>
<td><a href="http://calspace.ucsd.edu/epscor">http://calspace.ucsd.edu/epscor</a></td>
</tr>
</tbody>
</table>

Note: NFFP and NAFP applicants must be U.S. citizens. STEM stands for Science, Technology, Engineering, and Mathematics.