



NASA Academy Program Descriptions

October 2010



NASA Academy at ARC, GRC, GSFC, and MSFC

Websites: Ames: <http://academy.arc.nasa.gov>
Glenn: <http://academy.grc.nasa.gov>
Goddard: <http://academy.gsfc.nasa.gov>
Marshall: <http://academy.msfc.nasa.gov>

Description: The Academies are intensive educational programs emphasizing group activities, teamwork, research, and creativity. The curriculum balances direct contact with science and engineering R & D with an awareness of the managerial, political, financial, social and human issues faced by aerospace professionals. Included are seminars, informal discussions, evening lectures, supervised research, visits to other NASA Centers and facilities, group project/s, tours, posters/presentations, and assessment. Additionally, most weekends are filled with group activities, team building and off-site trips. One free weekend is scheduled.

Eligibility: GPA 3.2 minimum, U.S. citizenship, U.S. permanent residency, or citizen of participating country. Junior or senior undergraduate or first or second year graduate. High academic standing and a demonstrated interest in the space program

Min Level: Undergraduate - Junior

Max Level: Graduate - Second Year

Duration: 10 weeks

Dates: June through August

Locations: Ames Research Center (Mountain View, CA)
Glenn Research Center (Cleveland, OH)
Goddard Space Flight Center (Greenbelt, MD)
Marshall Space Flight Center (Huntsville, AL)

Apply at: <http://www.academyapp.com> Ames, Glenn, and Marshall
<http://interns.nasa.gov> Goddard only



NASA Aeronautics Academy at GRC and LRC

Website: <http://university.gsfc.nasa.gov/programs/graduate/nlpsa.html>

Langley: <http://aero.larc.nasa.gov/academy>

Description: The NASA Aeronautics Academy offers an immersive, integrated, multi-disciplinary opportunity for students with career aspirations in the national aeronautics enterprise. The academy will help prepare aspiring young professionals for employment in aeronautics by providing opportunities for direct science and engineering experience with an awareness of the complex managerial, political, financial, social, and human issues faced by current and future aerospace programs. The Aeronautics Academy Research Associates will receive training in integrated systems research, project management, leadership, teamwork and multi-disciplinary collaboration. Participants must be enrolled in Aeronautical, Aerospace Engineering or other related engineering discipline. Research Associates will work as a team on a multi-faceted problem as guided by professional scientists and engineers. In addition to students' exposure to NASA, they will also gain broader exposure to aeronautics through planned visits to industry and other national laboratories.

Eligibility: GPA 3.2 minimum, U.S. citizenship. Junior or senior undergraduate or first or second year graduate; high academic standing, two reference letters from faculty associated with applicant's academic major, and a demonstrated interest in Aeronautics as a career.

Min Level: Undergraduate – Rising Senior

Max Level: Graduate - Second Year

Duration: 10 weeks

Dates: June through August

Locations: Glenn Research Center (Cleveland, OH)
Langley Center (Hampton, VA)

Apply at: <http://www.academyapp.com>



NASA Lunar and Planetary Science at Goddard Space Flight Center

Website: <http://science.gsfc.nasa.gov/690/LPSA>

Description: The NASA Lunar Planetary Science Academy is a 10-week resident summer internship for students specifically interested in lunar and planetary science. The emphasis is on hands-on activities related to lunar and planetary science mission design and operation, instrument development, and data acquisition and analysis in a team environment. Students who have demonstrated experience in the relevant areas are given priority. Participants are assigned to a team project sponsored by mentors at NASA/GSFC, local industry, or academic institution. In addition to direct guidance from the Principal Investigator (PI) who sponsored the project, an advanced science/engineering student is assigned as team lead to guide interns and manage the project on a daily basis. The interns and team leads participate in enriching activities such as field work at a planetary analogue site, a group project, lectures, and meetings with leaders in the field. Students with disabilities are provided reasonable accommodation services. A blog of 2010's students activities is available at: <http://lpsadeathvalleyexcursion.blogspot.com>.

Eligibility: GPA 3.3 minimum on a 4.0 scale, with experience in lunar and planetary science research; US citizen.

Research Associates: Rising undergraduate freshman, sophomores, juniors, or seniors in astrophysics, physics, or engineering;

Team Leads: Undergraduate seniors or graduate students with a strong background in planetary science and/or engineering.

Min Level: Undergraduate - Freshman

Max Level: Graduate - Second Year

Duration: 10 weeks

Dates: June through August

Location: Goddard Space Flight (Greenbelt, MD)

Apply at: <http://www.academyapp.com>



NASA Propulsion Academy at Marshall Space Flight Center

Website: <http://propulsion.msfc.nasa.gov>

Description: The NASA Propulsion Academy, at the Marshall Space Flight Center, is a 10-week, residential summer research and educational experience for high achieving sophomores, juniors, seniors and graduate students interested in propulsion. The emphasis is on preparing young professionals for employment in aerospace positions. Propulsion is the critical element in NASA's exploration program. We are utilizing new propulsion systems as a training ground for university students who are interested in careers in this exciting field. Research Associates (interns) will work in teams of four, guided by propulsion engineers at Marshall, local commercial entities and local universities. Each team is composed of a "team lead" and three research associates. The team lead is an advanced undergraduate or graduate student with a curricular background in courses relevant to propulsion. The research associates are sophomores, juniors and seniors who aspire to becoming graduate propulsion engineers. Site visits, tours and lectures will demonstrate the various opportunities for employment in the space propulsion field. These visits will expose the research associates to state-of-the-art propulsion development. Tours of local facilities and lectures by experts in propulsion will provide one-on-one interaction with practicing propulsion engineers.

Eligibility: The participants in the Marshall NASA Propulsion Academy are selected based on the following criteria: US citizenship,

Research Associates: Rising college sophomores, juniors, or seniors;

Team Leads: Junior and senior undergraduates or graduate students with a curricular background in propulsion; High academic standing (GPA 3.2 or higher); Demonstrated prior involvement in propulsion

Min Level: Undergraduate - Sophomore

Max Level: Graduate - Second Year

Duration: 10 weeks

Dates: June through August

Location: Marshall Space Flight Center (Huntsville, AL)

Apply at: <http://www.academyapp.com>



NASA Robotics Academy at Marshall Space Flight

Website: <http://robotics.msfc.nasa.gov>

Description: The NASA Robotics Internship Program is a 10-week resident summer internship for students specifically interested in robotics. Students are given priority who have previously participated in the FIRST Robotics Competition or, Botball, or who have taken active interest in robotics in demonstrable ways. Participants are assigned to a team project sponsored by NASA/MSFC, local industry, or academic institution. Two to three students are assigned per project. In addition to direct guidance from the Principal Investigator who sponsored the project, an advanced robotic student is assigned as team lead to guide interns and manage the project on a daily basis. The interns and team leads participate in enriching activities such as a group project, lectures, field trips, and meetings with leaders in the field of robotics. Students with disabilities are provided reasonable accommodation services.

Eligibility: GPA 3.2 on a 4.0 scale, with experience in robotics; US citizen,

Research Associates: Rising undergraduate sophomores, juniors, or seniors;

Team Leads: Rising undergraduate juniors, seniors or graduate students with a curricular background in robotics.

Min Level: Undergraduate - Sophomore

Max Level: Graduate - Second Year

Duration: 10 weeks

Dates: June through August

Location: Marshall Space Flight Center (Huntsville, AL)

Apply at: <http://www.academyapp.com>