



NASA Academies in 2010

ARC – Ames Academy

GRC – Glenn Academy

MSFC – Marshall Academy

MSFC - Robotics Academy

MSFC - Propulsion Academy



Program Overview

Academy goal is to train the future leaders of the US Space Program by giving them a glimpse of how the whole system works – government, academia and industry.

- **The Academy is founded on four cornerstones:**
 - Immersion into the NASA culture
 - Leadership development and team building
 - Networking
 - Research
- **10-week intensive SENIOR research program that focuses on leadership, teamwork, and research in advanced sciences, technology and engineering.**
 - For undergraduate junior, senior and first year graduate students
- **NASA Centers provide:**
 - Research Mentor
 - Group Project Mentor
 - Leadership Lectures from NASA PIs
 - Lodging, meals, and transportation for 10 weeks



Program Overview

- **Selection Criteria (maximum of 25 total points)**
 - Academic Excellence (GPA - 3.5/4.0 or higher), honors, awards
 - Leadership (Captain of a team, editor of year book, elected to office by fellow students, Boy/Girl Scouts of America)
 - Demonstrated interest in space (participation in NASA activities, amateur astronomy, Space camp, classes/school projects related to space/aerospace)
 - Project experience (previous internships, project management, publications)
 - Maturity - Biographical essay, essays on preferred research tasks and Recommendations (2)
- **Success Criteria**
 - Employment by the aerospace industry
 - Continuation on to graduate school and faculty appointments in space related fields
 - NSF scholarships, DoD sponsorships, GSRP, ISU
 - Activities in national or international space activities



Program Overview

- **Academy Achievements**
 - **Over 650 alumni active within NAAA**
 - Network for communication and support for Academy alumni
 - Competitively awards travel grants
 - Aids in selection process
 - **Academy Successes (SGC metrics?)**
 - 60+ NASA Civil Servants, 120+ NASA contractors, 75+ professionals in aerospace related fields, 20+ faculty appointments in STEM related fields, 3 CEOs of aerospace firms
 - Over 100 PhDs completed, ~ 100 Masters completed, ~30 MDs, ~7 JDs, AND ~50% of the students are still working towards their degrees!



Program Overview

■ Partnerships with:

- State Space Grants (50 states plus DC and Puerto Rico)
 - Accept applications and select best candidates from state
 - If accepted, provide travel expenses and summer grant award (~\$5000.00 to Research Associate)
- International Partners
 - JAXA & CSA have provided students in past years
 - International student for 2010 under review with potential participant from one of several international space organizations (CSA, JAXA, VSSEC, ESA, CNES)

■ What can the SGC do?

- Continue to support the students!!
- Help advertise!
 - Member institutions
 - Partnerships with Minority-Serving institutions



Application

AcademyApp.com

Online: Nov 2 - Jan 18

GRC NASA Academy
MSFC NASA Academy
MSFC NASA Propulsion Academy
MSFC NASA Robotics Academy
ARC NASA Academy for Space Exploration

<http://academy.nasa.gov>





Back-Up Charts



NASA Ames Academy for Space Exploration



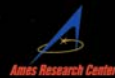
10 WEEK IMMERSIVE RESEARCH INTERNSHIP FOR
UNDERGRADUATE JUNIOR, SENIOR AND
FIRST YEAR GRADUATE STUDENTS

NASA AMES ACADEMY IS A DIVERSE SUMMER PROGRAM
THAT FOCUSES ON LEADERSHIP, AND TEAMWORK WITH
GROUP ACTIVITIES AND INDIVIDUAL PROJECTS ON
CURRENT NASA MISSIONS IN ADVANCED SCIENCE
AND ENGINEERING.

PROGRAM INCLUDES:

- SPACE GRANTS STIPEND UP TO \$5000 *
- TRAVEL AND TRANSPORTATION
- HOUSING
- FOOD STIPEND

APPLICATION DEADLINE IS JANUARY 2010
 LOOK FOR PROGRAM INFORMATION AND APPLICATION HERE:
[HTTP://ACADEMY.ARC.NASA.GOV](http://academy.arc.nasa.gov)
 CONTACT BRAD BAILEY AT: BRAD.BAILEY@NASA.GOV
 *(CONTACT YOUR STATE SPACE GRANT REPRESENTATIVE)



Are you a university student?

Are you a future leader in the Space Program?

Are you ready for the **NASA Academy?**

The NASA Academy is
an intensive ten-week
residential summer
experience.

In the Academy, you will live with other highly motivated
interns, conduct important laboratory research at a NASA
Center, participate in group projects, and attend learning
events with NASA leaders and industry experts. After
graduation, you will join the NASA Academy Alumni
Association (NAAA) where your role in the space
community is only just beginning...

Deadline: Jan. 26, 2009

Apply at: www.AcademyApp.com



Learn more about this and other NASA programs at your state space grant office.
<http://national.spacegrant.org>

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Advertising for 2009

- NASA Ames Homepage
 - NASA Education Page: For Students/For Educators
 - NASA Ames Education page
 - NAI Newsletter
 - NASA Watch
 - NAAA list serve
 - Space Grant Consortium
 - AGU, ASGSB, LEAG, AAS
 - Nucleus Posting
 - Goddard Summer Intern Application has links to our site
 - Lux Consulting has a dedicated advertising program from collaborations with Goddard.
- Under-represented groups contacted for 2009
 - American Indian Higher Ed. Consortium
 - United Negro College Fund Spec. Proj. Off.
 - Minority Institution Astrobiology Consortium
 - University of Puerto Rico
 - Melissa Kirven-Brooks' minority contacts (per recommendation from Karen Bradford): TN State, MIT
 - Just Garcia-Hill (A virtual community for minorities)



Added Target Recruiting Plans for 2010 Academy

- In addition to those listed from 2009 campaign:
 - Karen Bradford’s plan to contact minority professors from major universities.
 - Online minority resources (Twitter, Facebook, Chatter, etc)
 - Utilize NASA Education Office’s HBCU/HSI contact list.
 - “Brownblackfolk” - a listserve for young African-Americans from Brown U.
 - Black Excel - The College Help Network
 - NASA Ames African American Advisory Group
 - NASA Ames Hispanic Society
 - Stanford Univ. African American
 - MentorNet News: e-newsletter about mentoring and diversity in science and engineering
 - Tribal Colleges and Universities
 - Salish Kootenai College (NAI collaborator)
 - Foundation for a College Education listserve



Program Overview

Academy Achievements

- Of 142 Alumni, there are
 - Masters Degrees 79
 - Doctorates 62
 - Medical Doctors 18
 - Lawyers 2
- 3 Rhodes Scholars, 2 Marshall Scholars, 1 Churchill Scholar, 1 Goldwater Scholar, 5 ISU participants
- Employment (CS and Contractor)
 - ARC = 19
 - JSC = 5
 - KSC = 1
 - JPL = 4
 - GRC = 2
 - GSFC = 5
 - DFRC = 1
 - MSFC = 1
 - HQ = 2
- Other Government Institutions = 8
- Faculty Appointments = 9