

UPDATE – NASA Academy & Other Higher Ed. Opportunities

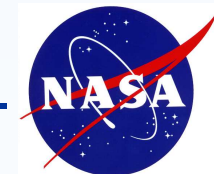
By

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**Presented at Natl. SG Directors' Mtg.
Portland, ME, Oct. 14-16, 2010**

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Students & Faculty Opportunities at Glenn Research Center

Update on “NASA (Space) Academy” 2010 at GRC

- **Total Research Associates (RAs): 8**
- **SGC Partners:** AL, MA, MI, NY, OH, WI and WV
- **Research Assignments:** Varied individual research projects in addition to Group Project - “Modular and Adaptable Space Environments (MASE)”
- **Developmental** Lecture Series, Facility Tours and Industry visits
- **Follow-on Opportunity:** 4 RAs recommended for “NASA Student Ambassador”
- **Status on RAs:** Some are enrolled in graduate study; others are undergrad seniors.

ARMD-Approved “NASA Aeronautics Academy” **(NEW-Summer 2011)**

- **Goal/Objective:** Provide unique learning experience for future Aeronautics leaders via research, systems integration, proj. mgt., teamwork & leadership training
 - *Aligns with nat'l & ARMD need for sustainment of Aeronautics STEM workforce
 - *Will partner with National Space Grant Consortia and Industry; **10-wk** internship
- **Eligibility:** 10-weeks, starting in summer'11, for Aeronautics /Aerospace students
 - *US citizens at Rising Jnr. - 2nd year Grad. level at univs./colleges; Min. GPA=3.2
- **Application:** <http://www.AcademyApp.com>

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NASA Glenn Faculty Fellowship Program (NGFFP)

- **Goal/Objective: 10-week**, summer prog. to increase collaborations with STEM faculty in US academic institutions, on research & technology for NASA mission
- **Must be:** US citizen, tenured/tenure track in 4-yr. univ.; full-time in 2-yr institution
- **Application/Details:** <http://newbusiness.grc.nasa.gov/university-affairs/ngffp/>

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NASA Space Technology Research Grants Program

Goal/Objective: To accelerate development of high-risk/high-payoff technologies to support NASA's space science & exploration needs

*National Prog. Office at GRC

- **Faculty Grants:** Focus on advanced space technology by academia, NASA Cntrs. & not-for-profit R&D labs, plus small business, industry & other gov't agencies
 - ***100 new Awards/yr.;** 12 months, \$250K Award (max. 24 months, \$400K)
 - ***1 Solicitation/yr.,** for Dec. NRA release
- **Student Fellowships:** US citizens & Permanent Residents may compete for –
 - *Award for M.S.- \$55K/yr **for 2 yrs.;** Ph.D.- \$60K/yr. **for 3 yrs.**
 - *Total Awards: **350** in FY11; **500/FY** after FY11
 - *Research must show promise for future NASA mission & strategic goals
 - *Emphasis on NASA-wide & discipline-based interaction with Fellows
 - *Proposal Call- 10/1; Due date- 12/1; New Awards-2/15; Fellowships start- 8/15
- **Details at - <http://www.nasa.gov/oct>**
- **Application at- <http://nspires.nasaprs.com/external/research.do>**
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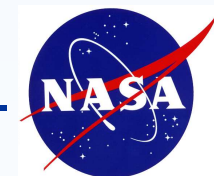
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Update – Ames Research Center

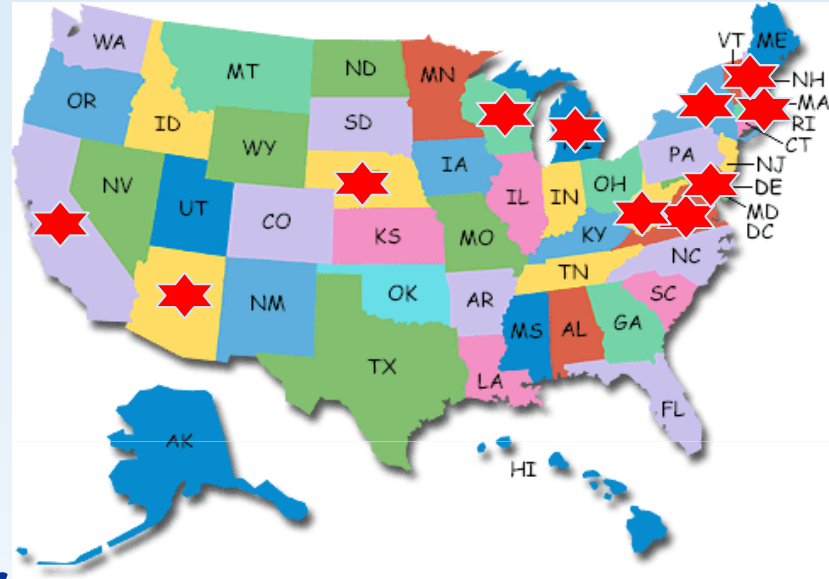
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Highlights from the 2010 Ames Academy

- 11 US students
- 3 Internationals
 - CNES, VSSEC, CSA
- 3 papers are in review
- 18 lectures, visited 4 NASA Centers, 3 research institutes, 2 commercial space partners
- Group project: Creation of a microbial fuel cell as a proxy for life detection. The project is continuing at the MDRS (Jan 29-Feb 11, 2011) Glenn Research Center



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- Continue to have strong support from Ames Center Director Pete Worden
- 9/12 (2009) and 8/14 (2010) students applied to come back as staff for the following summer
- 6/12 students from 2009 returned to Ames during the summer of 2010
- Already have placement for 5 2010 students for 2011 and 3 students are currently working at Ames as a continuation of their summer projects
- Collaboration with Stanford with the Academy as an entrance prerequisite

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Update – Marshall Spaced Flight Center

VOTE OF THANKS

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