



NASA ♦ NIA ♦ NCSGC

EDUCATIONAL WORKSHOP

For Educators and Administrators from North Carolina

July 10 - July 23, 2005



NASA Langley Research Center in conjunction with the National Institute for Aerospace (NIA) and the North Carolina Space Grant Consortium (NCSGC) offers a unique opportunity for 6-12th grade educators and administrators from North Carolina to participate in a two-week summer educational workshop. Educators will observe and interact with NASA and university scientists, engineers, technicians and education specialists on state-of-the-art aerospace research and development that can be integrated into the classroom and reinforce and complement state standards competencies in science, mathematics and technology. The first week will be divided between NC A&T State University in Greensboro and NC State University in Raleigh, and the second week will be spent at NASA Langley Research Center in Hampton, Virginia along with Virginia educators.

GOALS

- Develop 6-12th grade instruction and activities that will educate and excite students on how mathematics, science, engineering and technology can be applied to solve real world problems and improve the quality of life for humankind.
- Enhance the education of 6-12th graders by fortifying competency materials in their current science and math curricula.

OBJECTIVES

- Observe and interact with scientists, engineers, technicians and education specialists applying fundamental and advanced mathematics, science, engineering and technology in a research environment.
- Strengthen the connections and collaborations between NASA Langley Research Center, NIA, NCSGC and North Carolina's education community.
- Identify curriculum strands for developing mathematics, science, and technology content skills over the 6-12th grade curricula.
- Integrate NASA, NIA and NCSGC resources with the North Carolina learning goals at the 6th through 12th grade levels.

OUTCOMES

- Curriculum strands in mathematics, science and technology that integrate aerospace research with classroom instruction.
 - Innovative educational activities that contribute to students' understanding of important principles in math, science, and technology, including hands-on experiments, student competitions, and links to NASA and participating universities.
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PARTICIPANT ELIGIBILITY

- 6-12th grade educator or administrator in North Carolina OR 4-H, YMCA, or YWCA educator who interacts with 6-12th grade students
- US citizen or permanent resident
- Access to and familiarity with the Internet
- Recommendation from the school administration from school home county

PAYMENTS TO PARTICIPANTS

- University housing is provided for the week in North Carolina, and hotel accommodations are provided for the week at NASA Langley Research Center in Hampton, VA.
- Stipend of \$1,500* to educators who participate in the entire two-week workshop, except for those already on 12-month appointments. Other expenses, such as food and travel, are the responsibility of the participant.
* Amount of award based on availability of funds.

WORKSHOP DATES

- NC State University: July 10 - 12
- NC A&T University: July 13 - 15
- NASA Langley: July 17 - July 23

HOW TO APPLY

- Application forms can be filled out and submitted online at <http://www.mae.ncsu.edu/spacegrant>.
- Recommendation letters should be transmitted by email to space_grant@ncsu.edu OR sent by mail to the address given below.
- **DEADLINE FOR APPLICATIONS: April 15, 2005**

Selected participants will be notified by April 30, 2005.

Up to 20 educators/administrators from North Carolina will be selected to participate. Participants will receive 6.0 CEUs for completion of the workshop.

