



# north carolina space initiative

a program of the kenan institute for engineering, technology & science



While NASA's budget over the last 11 years has remained fairly constant, the agency's funding for university programs has nearly doubled.

<u>Year</u>	<u>Total (\$B)</u>	<u>Univ (\$M)</u>	<u>%</u>
1991	14.7	595	4.0
1992	15.2	663	4.3
1993	14.9	710	4.8
1994	14.6	732	5.0
1995	15.1	818	5.4
1996	14.4	749	5.2
1997	14.6	807	5.5
1998	14.4	909	6.3
1999	14.5	1023	7.1
2000	14.5	1001	6.9
2001	14.8	1118	7.6



## NASA Funding for FY 2000 (\$ Millions)

Texas	3,976	Louisiana	375
Cal.	2,754	Colorado	193
Maryland	1,096	Mass.	162
Florida	590	New Jersey	81
Alabama	498	Indiana	61
Virginia	466	Penn.	46
Ohio	243	Missouri	36
Miss.	156	Tenn.	26
		Georgia	23

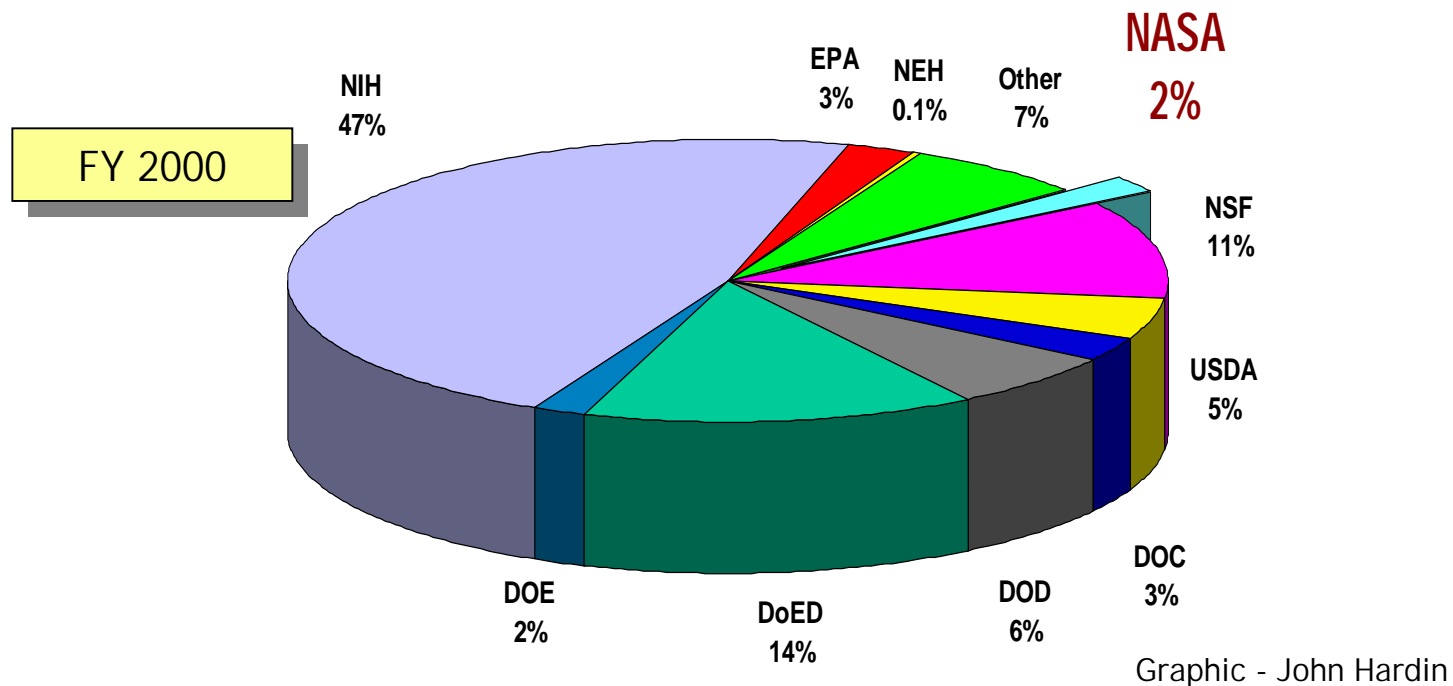
NC	23	8.6
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SC	4
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NC universities ranked 28/52 in NASA support, getting 0.86% of NASA's university obligations of \$1 billion.

Black - Total state funding  
Blue - NC Universities

# UNC System NASA Share of Federal Awards



There is room for growth in the UNC system  
and throughout North Carolina



## Goals of the NC Space Initiative

- To establish networks to facilitate collaborative projects
  - Fundamental and applied space research
  - Education in space science, engineering, business, and policy
  - Outreach and engagement
- To compete for NASA / other funding
- To apply space technology to issues of concern to our state and region
- To attract space-related industry to our state and our region

**To Make NC a Leading Space State**



## **NCSI Provides:**

- **Expertise to maintain linkages to NASA decision makers and to pursue space R&D opportunities - especially multi-disciplinary, multi-institutional programs**
- **Proposal development**
  - Pre-proposal workshops
  - Grant writer
  - Faculty release time
  - Grant management, when appropriate
- **Space Seminar Series**
- **Senior Fellows Program**
- **Space Research Consortium**
  - Industry/University/Government Partnerships



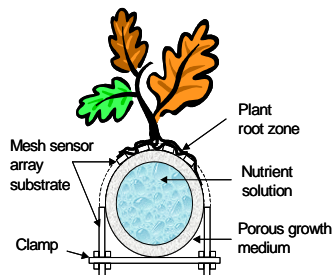
## Multi-Institutional Research



**NASA Institute for Aerospace Associates:  
NCSU, NC A&T, UVa, VPI, UMd, GTech**



**Center for Plant Gravitational Genomics:  
NCSU and WFU**



**O<sub>2</sub> Microsensors for Space Horticulture:  
NCSU and UM-Rolla**



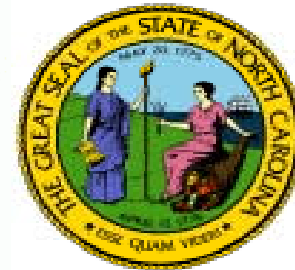
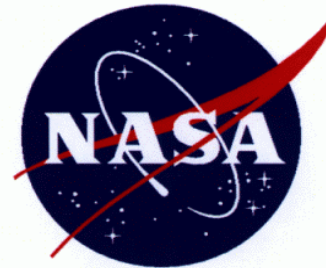


# Advocacy

Congressmen Price and Etheridge visit the PGG Research team, January 2002.



## NASA and North Carolina: Building Stronger Partnerships



Sponsored by the North Carolina Space Initiative: A program of the Kenan Institute for Engineering, Technology & Science at NC State University

## Forging Strategic Partnerships in Environmental Systems, Biotechnology and Agricultural Research for Space Applications



A working meeting held at  
North Carolina State University  
September 25, 2002

Hosted by the  
North Carolina Space Initiative



## A Non-Government Organization and the International Space Station



**Southeast Regional AUI/ISSI Workshop**  
**University of Florida**

21 November 2002



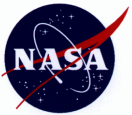
## Pending and Future



**Programmable Plants for Life Support in Space:  
NASA Institute for Advanced Concepts  
NCSU, UW-Madison, UF**



**Lead Team Institutional Member:  
NASA Astrobiology Institute  
NCSU, UGa, Yale, Portland State**



**NASA / UNC Memorandum of Understanding**



**PARI and the UNC System**