

Introduction to:

**Southeastern Universities Research Association
(SURA)**

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About SURA:

- An association of 61 research universities in the US & Canada proactively engaged in collaborative research
- Collaborations with Member Universities, Non-Member Universities, US/Foreign Gov't Labs
- Natural sciences; multi-institution scope and scale
- Established in 1980; a recognized IRS '501(c)(3)' nonprofit organization
- Founding Members: UVA, VCU, CWM, UMD
- Scientific research and education subsidiaries:
 - Jefferson Science Associates, LLC
 - National Association of Hispanic Physicists
 - International Light Cone Advisory Committee



DOE: M&O and Opportunities

Jefferson Lab

- DOE/Office of Science National Lab
- World's first superconducting accelerator
- World's highest CW electron accelerator
- World's highest (continuous) power free electron laser
- 1991: first patent (SRF cryogenics)
- 1995: first experiment
- 2017: \$338 million 12 GeV upgrade
- Prime: SURA/JSA



Collaborative Opportunities

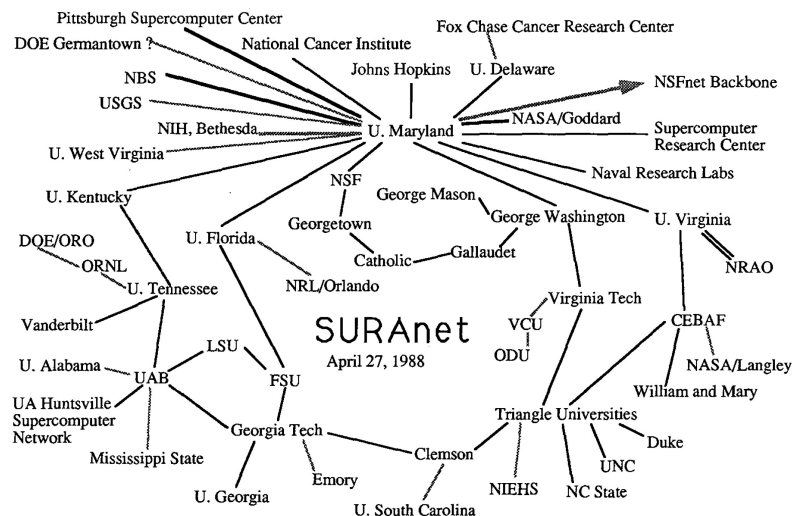
- Center for Nuclear Femtography



NSF Cyberinfrastructure Collaborations Completed and Ongoing

SURAnet

- An original regional academic internet provider (NSFnet)
- 1986-1995 (5 NSF Grants)
- First connectivity to CEBAF and NASA-Langley, NASA-Goddard, ORNL, NRL, NSF, NIH, etc.
- Prime: SURA
- Principal Collaborators: UMD, GWU, NC State
- 1995 sale established SURA's endowment



XSEDE

- virtual organization providing 5 NSF supercomputer centers and high-end visualization and data analysis resources for scientific research
- 2011-ongoing
- Prime: U. Illinois





NASA Space Science and Technology

CRESST – II (Space Science and Planetary Science)

Center for Research & Exploration in Space Science & Technology

Goddard Space Flight Center; 2017-ongoing

Prime: University of Maryland – College Park

Other Partners: UMBC, CUA, Howard U.

LASSO (Space Mission Support Technologies)

Laboratory Support Services and Operations

Kennedy Space Center; 2018-ongoing

Prime: AECOM/URS (Amentum)

Other Partners: Bionetics

GESTAR – II (Earth Science)

Goddard Earth Sciences Technology and Research

Goddard Space Flight Center; 2021-ongoing

Prime: University of Maryland Baltimore County

Other Partners: Morgan State U., Arizona State U., Colorado State U., Penn State U., Northrup Grumman, Earth Resources Technology

