



NASA Langley Computational Research Facility - a state-of-the-art consolidated data center that allows for advanced computational research and development in a new, energy efficient and sustainable facility.

*Photo credit: NASA*

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## NASA Langley Research Center's Revitalization Program

For nearly 100 years, NASA Langley Research Center (LaRC) has made significant contributions to aeronautics, space exploration, and earth science missions through research, technology, and engineering core competencies in aerosciences, structures and materials, characterization of Earth and planetary atmospheres, aerospace systems analysis and, more recently, in technologies associated with planetary entry, descent, and landing.

LaRC developed and has begun to implement a major 20-year revitalization strategy that includes eight new state-of-the-art facilities, renovation of critical infrastructure, and demolition of nonessential assets, all of which enable LaRC to respond to the strategic and infrastructure challenges of the agency while making the Center more efficient to operate.

To date, two new buildings were designed, built and occupied. The Computational Research Facility (CRF), the third new building in the Revitalization Program, has been released for construction, and a fourth is being designed for construction starting in FY2016. To be successful, LaRC had to work closely with local city and county governments, as well as other federal agencies to plan for and implement this program. This included its implementation partners—the General Services Administration (GSA) from the Mid-Atlantic Region and the U.S. Army Corps of Engineers (USACE) from the Norfolk District.

GSA helped LaRC implement the design, construction, and activation of the first two buildings. USACE is helping to design and build the CRF, and has managed the completion of many of the demolition projects. GSA and USACE provide project management, contract administration, construction

management, and technical support to manage these large design and construction projects.

These new facilities represent a great collaborative effort, and are exciting new additions to LaRC. They are modern, energy-efficient, and custom designed for their intended purposes. The buildings modernize, yet blend in, with the architectural décor of this historic campus. The Langley project team provides strategic direction, management oversight, and timely reviews and decisions on technical matters.

Funding is provided by the NASA Construction of Facilities budget and the NASA Langley Revitalization Program. This partnership works well because both parties bring unique areas of expertise to the table. As the Revitalization Program has progressed, LaRC has coordinated with the cities of Hampton, Newport News, and Poquoson; its Joint Base Langley Eustis neighbors; the State of Virginia; area congressional and community leaders; and the NASA Aerospace Support Team.

The economic impact of this program is significant because for the first three projects, over \$120 million dollars of design and construction work has been awarded to contractors, most with local firms in Virginia and with 35 to 45 percent of the awarded amounts going to small businesses.

In addition, LaRC has donated obsolete excess furniture and equipment to the community. The old cafeteria dining room tables and chairs were donated to Page Middle School in Gloucester, Va., which was damaged by a tornado. Overall, the Revitalization Program at NASA LaRC has been a successful partnership, and has provided a significant economic impact on the local community.