



# Katherine G. Johnson Computational Research Facility

NASAfacts

The Katherine G. Johnson Computational Research Facility, or CRF, is a state-of-the-art facility that will enable innovative research and development supporting NASA's air mobility and space exploration missions. It is the third building in NASA Langley Research Center's 20-year revitalization plan.

The \$23-million, 37,000-square-foot structure will consolidate four Langley data centers and more than 30 server rooms. The building will have energy-saving features that are expected to be 33-percent more efficient than if those features were not incorporated.

The facility advances Langley's capabilities in modeling and simulation, big data, and analysis. Powerful computers like those in the CRF are capable of ever more complex analysis and simulation, in some cases replacing but also validating and complimenting the research done in NASA's labs and wind tunnels.

## *'Hidden Figures' Connection*

Katherine G. Johnson, after whom the building is named, was a "human computer" at Langley who calculated trajectories for America's first space flights. The retired mathematician was awarded the Presidential Medal of Freedom, the nation's highest civilian honor, in 2015. Her contributions and those of other NASA African-American human computers are chronicled in the 2016 movie "Hidden Figures," based on the book of the same name by Margot Lee Shetterly.

Johnson worked at Langley from 1953 until she retired in 1986. For more about her, go to <https://www.nasa.gov/content/katherine-johnson-biography>.



*The main doors to the new facility. Note that Johnson's name is on it.*



*Katherine G. Johnson.*

The Norfolk District of the U.S. Army Corps of Engineers selected for the project, Turner Construction Co., and awarded the New York City-based company a \$23-million construction contract in October 2014.

NASA Langley's 20-year Revitalization Plan calls for demolition of aging structures and construction of new, energy efficient facilities, and the rehab of existing buildings. The first building, serving as NASA Langley's headquarters, opened in 2011. The second, the Integrated Engineering Services Building, opened in 2014. Construction on a fourth facility, the Measurement Systems Laboratory, began in 2016.

For more about NASA Langley, go to <https://www.nasa.gov/langley>



*The new Katherine G. Johnson Computational Research Facility.*

**National Aeronautics and Space Administration**

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