



# ITT

## James Webb Space Telescope

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### ITT Engineers Helping To Build And Test The James Webb Space Telescope

**ITT engineers are helping NASA build and test the ultra-powerful James Webb Space Telescope (JWST), which will provide unprecedented images of the universe's first stars and galaxies.**

#### **Integration and Test**

Part of a Northrop Grumman-led team, ITT is integrating components to form the optical telescope element. After integrating the telescope with the science instrument module, ITT will perform optical tests at cryogenic temperatures to help ensure that the telescope will provide sharp images of deep space.

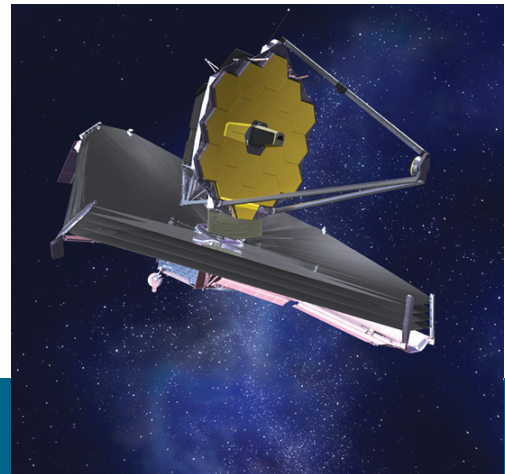
#### **Focal Plane Assembly**

ITT will also develop the Focal Plane Assembly package on the Near-Infrared Spectrograph detector which will measure the redshift, metallicity, and star information rate in first light galaxies. The space-based observatory is named after NASA administrator James E. Webb (1906-1992) who is best-known for leading a series of lunar exploration programs (including Apollo) and initiating a vigorous space science program. Webb was responsible for more than 75 launches during his tenure, including America's first interplanetary explorers.\*

#### **About JWST**

Successor to the Hubble Space Telescope, JWST is a large, infrared-optimized telescope designed to study the evolution of galaxies and the process of star and planet formation.\* It is slated to be sent into orbit aboard an expendable launch vehicle in 2013. JWST will be located in an orbit around the sun that is three times further away from the Earth than the moon.

Compared to Hubble, JWST's primary mirror will be six times larger in area and 1,000 times more sensitive in the infrared. But it will be significantly lighter than Hubble's primary mirror thanks to its ultra-lightweight mirror segments.



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\*Credit: NASA Web site

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