Completed Project (2011 - 2012)

Optical Space Telescope Assembly Project

Game Changing Development Program | Space Technology Mission Directorate (STMD)

ABSTRACT

Design, build, and test Gimbal and Robotic driven attachment mechanism for the telescope.

DETAILED DESCRIPTION

The Optical Space Telescope Assembly (OSTA) task is to demonstrate the technology readiness of assembling large space telescopes on orbit in 2015. This task is an integrated part of the Optical Testbed and Integration on ISS eXperiment (OpTIIX) program. FTE at JSC will design, build, and test the Gimbal and the robotic driven attachment mechanisms, develop the robotic operation assembly and maintenance plan and procedures, and perform the integrated ISS analysis of the OpTIIX Payload. For FY12, this task will be brought to a PDR level of documentation and hardware.

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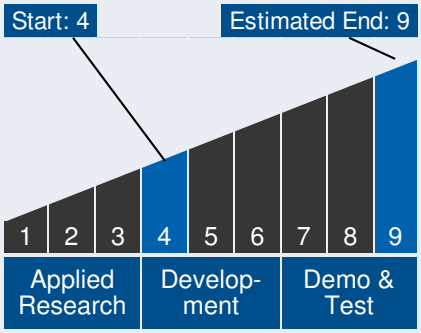
Technology Maturity



Management Team

Program Executive:

- Ryan Stephan

Continued on following page.

This is a historic Project that was completed before the creation of TechPort on October 1, 2012. Available data has been included. This record may contain less data than currently active projects.

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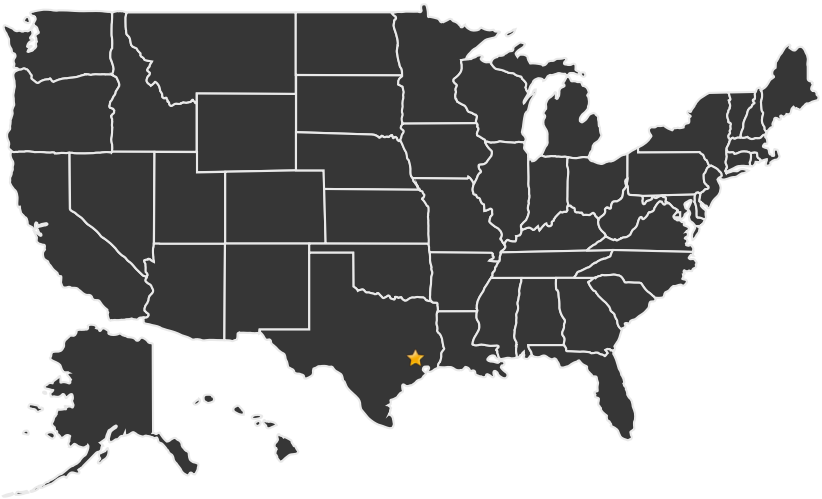
U.S. WORK LOCATIONS AND KEY PARTNERS



U.S. States With Work

Lead Center:
Johnson Space Center

Supporting Centers:

- Johnson Space Center

Management Team *(cont.)*

Program Manager:

- Stephen Gaddis

Project Manager:

- Kim Ess

Principal Investigator:

- Ronald Litchford

Technology Areas

Primary Technology Area:
Science Instruments, Observatories, and Sensor Systems (TA 8)

DETAILS FOR TECHNOLOGY 1

Technology Title

Optical Space Telescope Assembly

Technology Description

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