The Space Telescope Science Institute (STScI) is a world-class astronomical research center and a multi-mission operations center for NASA's flagship observatories. Established in 1981, the institute has developed and executed the science program for the Hubble Space Telescope since its launch in 1990. Today, STScI is developing new technologies for the science and flight operations center for NASA's next great space observatory, the James Webb Space Telescope, set to launch in 2021. STScI is also developing major science operations for NASA's Nancy Grace Roman Space Telescope, set to launch in the mid-2020s, and is studying Advanced Space Telescope Concepts for future large missions in the 2030s and beyond.

Scientific Research

STScI's world-class scientific staff perform cutting-edge astronomical research resulting in hundreds of peer-reviewed articles each year. Making use of the world's flagship observatories on the ground and in space, their work spans a range of research areas, including the characteristics of our solar system, the habitability of exoplanets, the physics of stellar processes, the formation and evolution of galaxies, and the history of the cosmos.

STScI Russell B. Makidon Optics Laboratory

With a state-of-the-art facility that includes the JWST Optical Simulation Testbed (JOST) and the High-contrast imager for Complex Aperture Telescopes (HiCAT), STScI scientists and engineers work at the forefront of developing optical technologies for advanced coronagraphs and large segmented mirrors to support future mission concepts.

Communications and Public Outreach

With a goal of making the world's astronomical information accessible to all, STScI is home to one of the premier science communication centers in the world. Staffed with leading science writers, graphic designers, imaging specialists, media specialists, illustrators and animators, web developers, educators, and scientists, STScI brings astronomical discoveries to the world through a wide array of engaging communication channels.

www.stsci.edu

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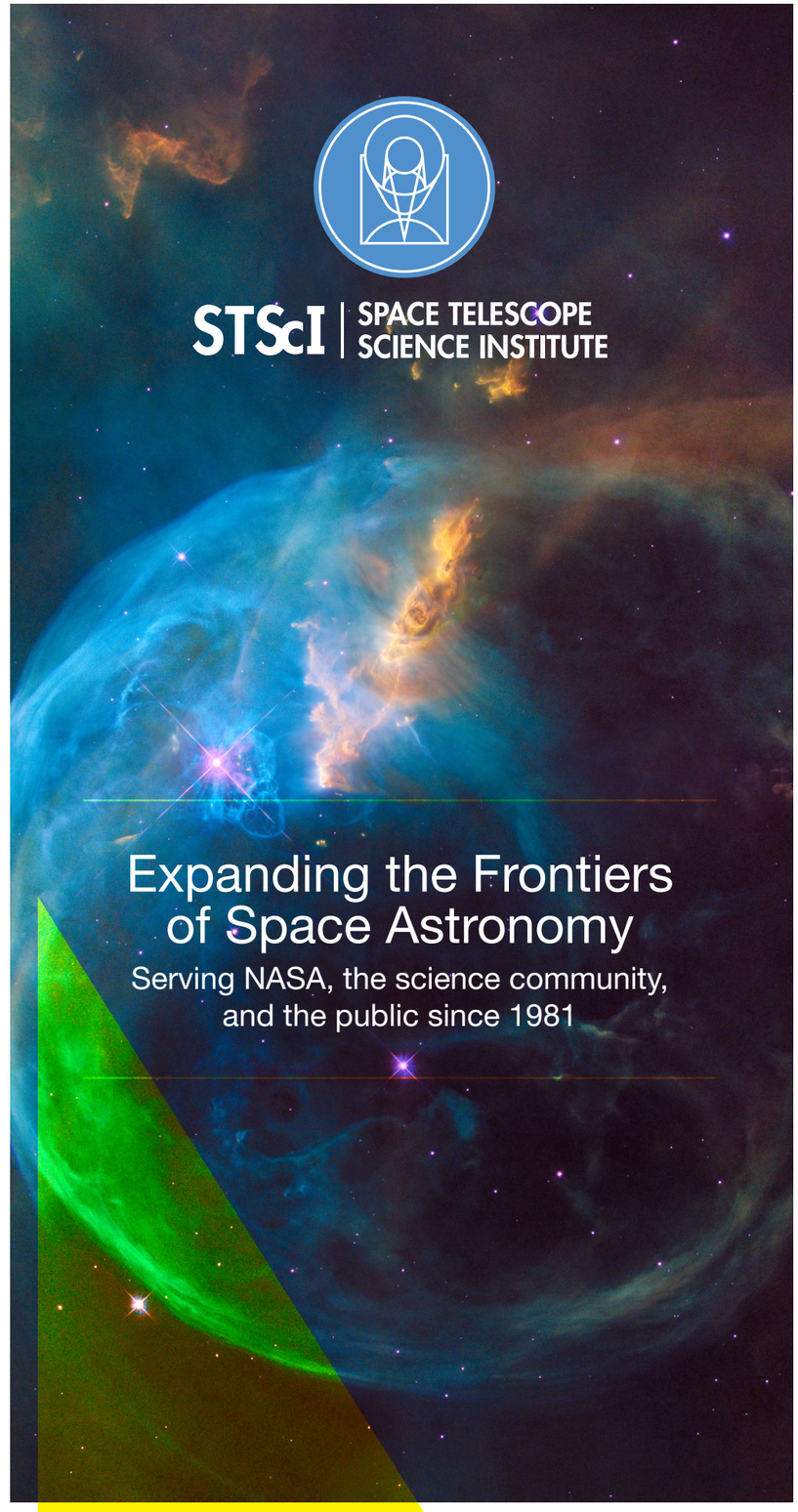
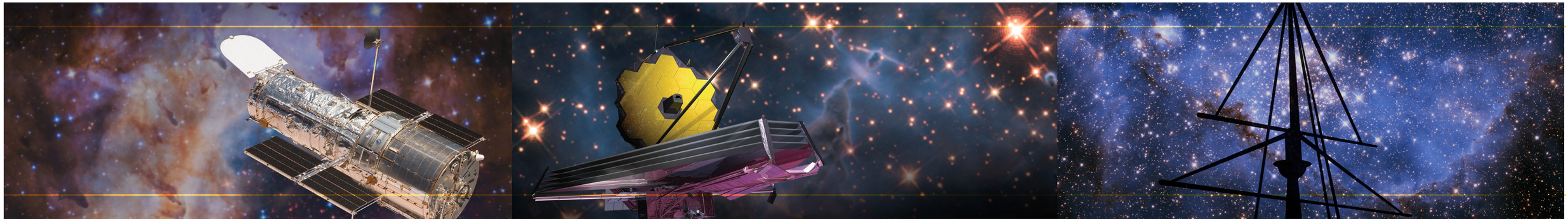




Hubble Space Telescope (HST)

The Hubble Space Telescope remains the most powerful observatory for studying the universe. Each year, STScI helps thousands of scientists from around the world use Hubble to open new windows on the universe and to understand our place within it. STScI is the science operations center for Hubble, working in tandem with the flight operations at GSFC. Together they continue to enable new science for the “people’s telescope.” In addition to interfacing with the science community and performing all of the science operations tasks, STScI is the public outreach and news center for Hubble.

www.stsci.edu/hst and **hubblesite.org**

James Webb Space Telescope (JWST)

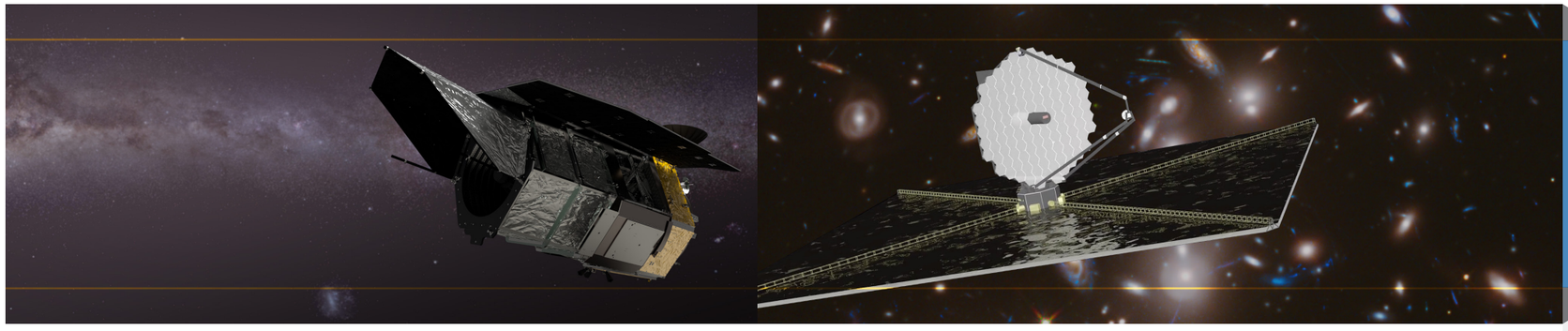
Scheduled for launch in 2021, the James Webb Space Telescope is the next generation flagship observatory for studying the universe. With a giant 21-foot segmented mirror and instruments optimized for infrared light, Webb is designed to solve some of the biggest mysteries facing the universe today. STScI is both the science and the flight operations center for Webb, and supports its public outreach and news initiatives.

www.stsci.edu/jwst and **webbtelescope.org**

Mikulski Archive for Space Telescopes (MAST)

STScI enables research for thousands of astronomers across the world through MAST. Containing astronomical data for more than 20 missions, including Hubble, Kepler and K2, Swift, Pan-STARRS, GALEX, FUSE, IUE, and TESS (as well as JWST and Roman in the future), MAST responds to millions of searches per month and distributes tens of terabytes of science data products to the community. More than 1000 research papers are published each year using MAST data.

archive.stsci.edu



Nancy Grace Roman Space Telescope (Roman)

The Roman mission will be astronomy’s first telescope that offers both a large field of view and high resolution. The telescope will have 100 times the field of view of Hubble, with the same clarity and light-gathering power. Designed to answer questions about dark energy, the distribution of planets around stars, and many other topics at the forefront of astrophysics research, Roman is scheduled for launch in the mid-2020s. STScI will perform science operations and public outreach for Roman, and will also host the science archive for all of the data.

www.stsci.edu/roman

Advanced Space Telescope Concepts

STScI’s Community Missions Office paticipates in concept studies of NASA’s future flagship space observatories and state-of-the-art astronomical instrumentation.

www.stsci.edu/scientific-community/community-missions/advanced-concepts

STScI’s diverse staff work together to maximize the science productivity of NASA’s flagship missions.

The institute’s diverse staff includes astronomers, software engineers, telescope operators, data analysts, information technology professionals, education and outreach specialists, administrative and business professionals, and more. Working together, STScI’s staff strive to maximize the science productivity of NASA’s flagship telescopes.

12/2020