NASA Stennis Space Center

Strategic Business Overview

Stennis Business Council

Strategic Business Development Office

April 24, 2024





Strategic Business Development Office



- SSC Center leadership created the Strategic Business Development Office (SBDO) to lead the
 - Creation of Center strategy
 - Pursuit of new business
 - Development of new WAYS of doing business
 - Digital Transformation





NASA's Mission and Vision



Vision

Exploring the secrets of the universe for the benefit of all

Mission

NASA explores the unknown in air and space, innovates for the benefit of humanity, and inspires the world through discovery

SSC's Mission and Vision



Vision

Innovate to transform propulsion testing, empower intelligent space missions, and modernize support services to maximize partnership opportunities that secure NASA Stennis' future

Mission

NASA Stennis accelerates the exploration and commercialization of space, innovates to benefit NASA and industry, and leverages assets to stimulate the economy and enhance national security

Stennis Space Center Business Lines



Propulsion Test



Federal City



Autonomous Systems



Range Operations





What makes NASA SSC unique?





SSC Economic Impact





Test Complex

ROCKET PROPULSION TEST HERITAGE



Development Testing

1990s - Present



Apollo Program Saturn V Rocket Engine Testing 1961 - 1975 Space Shuttle Program Space Shuttle Main Engine Testing 1981 - 2011 Artemis Program Core Stage & RS-25 Engine Testing 2016 – Present

Test Complex Future



Multi-user Test Complex operated by NASA



Leasing land and underutilized facilities to industry to accelerate the development of US commercial launch services

Relati;ity

Supporting R&D plus acceptance testing of components, rocket engines, and rocket stages for government and industry

NASA

Operations in the Test Complex in 2017





Current Operations in the Test Complex





Federal City Development Opportunities

DOD and Federal Tenants



Department of Commerce

- National Data Buoy Center (NDBC)
- National Oceanic & Atmospheric Administration (NOAA)
- NOAA National Center for Environnemental Information (NCEI)
- NOAA National Marine Fisheries Service
- NOAA Navigation Response Team-1
- National Weather Service (NWS)

Department of Defense

- Army Aviation Program Executive Office (N)
- Army Corps of Engineers
- Army Missiles & Space Program Executive Office (N)
- Commander, Naval Meteorology & Oceanography Command (CNMOC)
- Naval Air Systems Command (N)
- Navy DoD Supercomputing Resource Center (N)
- Navy Exchange (NEX)
- Naval Oceanography Operations Command (NOOC)
- Naval Oceanographic Office (NAVO)
- Navy Office of Civilian Human Resources (OCHR)
- Naval Research Laboratory (NRL)
- Navy Small Craft Instruction and Technical Training School (NAVSCIATTS)
- Navy Special Boat Team 22 (SBT-22)
- Naval Special Warfare Center (NSWC)

Department of Energy

Strategic Petroleum Reserve

Department of Homeland Security

- DHS Data Center 1 (N)
- Office of Biometric Identity Management (N)
- Office of Intelligence & Analysis (N)
- Transportation Security Administration (TSA, N)
- U.S. Citizenship & Immigration Services (USCIS, N)
- U.S. Customs and Border Protection (N)
- U.S. Immigration & Customs Enforcement (USICE, N)

Department of Housing and Urban Development (HUD)

Information Systems at NCCIPS (N)

Department of Interior

• U.S. Geological Survey (USGS), Hydrologic Instrumentation Facility (HIF)

Department of Transportation

- Chief Information Officer (CIO, N)
- Maritime Administration (N)

Government Publishing Office

Passport Production Facility

General Services Agency

• Information Systems at NCCIPS (N)

NASA Stennis Space Center

- NASA Rocket Propulsion Test Program
- NASA Shared Services Center (NSSC)
- National Center for Critical Information Processing & Storage (NCCIPS)

State and Commercial Tenants



Commercial Companies

- Aerojet Rocketdyne
- Brown & Root (M)
- COLSA Corporation (M)
- Evolution Space
- Federal Facility Solutions (M)
- Greenup Industries (M)
- Innovative Imaging and Research (I2R)
- Launcher
- Lockheed Martin
- Pongo, LLC (M)
- Relativity Space Incorporated
- Rocket Lab
- Rolls Royce North America

The Center of Higher Learning

- Mississippi State University
- Pearl River Community College
- University of New Orleans
- University of Southern Mississippi
 - ** N Denotes NCCIPS Tenant M Denotes MSET Tenant

State of Louisiana

- Louisiana Technology Transfer Aetos (N) Office Alutiig Essential Services
- Louisiana Business & **Technology Center - LSU**

State of Mississippi

· Mississippi Enterprise for Technology (MSET)

Mississippi State University (MSU)

- Northern Gulf Institute
- ASSURE FAA UAS Center of Excellence

University of Southern Mississippi (USM

- School of Ocean Science and Engineering (SOSE)
 - (HSO)
 - High Performance Solutions (NASA/Navy/NOAA, M)
 - Ignite (N)
 - Information Technology (GDIT)

Hancock Sheriff Office

• LATG (Navy, M)

AQST (NASA, M)

CBF Partners

Booz Allen Hamilton

• Dell Consulting (N)

Deltha Corporation

DeVine (Navy, M)

General Dynamics

Office/EUSO

(NOAA, M)

Chenega Global Protection

End User Services Program

Global Commerce Services

Bastion

(CGP)

- Leidos
- Manufacturing Technical Solutions (NASA, M)

Contractor Partners

- MDW Associates (Finance)
- NVision Solutions (NASA/NOAA, M)
- Oakwood University (HBCU, N)
- Orion (security)
- Pacific Architects and Engineers (PAE)
- Pearl River Technologies (N)
- Peraton (Navy, M)
- Phoenix International (Navy, M)
- Radiance Technologies NASA/Navy, M)
- SaiTech
- Science Applications International Corporation (SAIC, N)
- Seabrook Solutions (N)
- Serco (Navy, M)
- Syncom Space Services (S3)
- TekSynap (M)
- Teledyne Marine (Navy, M)

Available Land for Development at SSC





Area	Approximate Acreage (ft ²)	Notes
A	1900	Enterprise Park, Reviewing AFP Responses
В	700	
С	300	
D	100	
E	900	
F	1300	
G	700	
Н	100	
I	200	
J	100	Inside secure permitter of the
К	200	test complex and access to test complex infrastructure

Available Building Space for Development at SSC





Total NASA SSC Vacant = 303,595 ft²

*SSC Total Space = 4,277,611 ft²

Type 1 = A/C Office, Conference, Auditorium, etc. Type 2 = A/C Shop, Industrial, Lab Type 3 = Non-A/C, Warehouse, Storage

*the total SSC space includes facilities owned by others

Resilient Infrastructure at SSC





Redundant 115 kV transmission lines from North and South with (3) -115 kV substations on site 5 redundant fiber network providers on site with dark fiber 4 redundant pumped wells that feed 4 elevated water towers with a total capacity of 8000 GPM and an average daily usage 400K GPD

Planning to Plan to phase out existing systems and connect to the Hancock County wastewater system in 2025 to serve the growing needs of SSC

Multi-Modal Transportation

25 (Miles)





Guidelines for Companies Locating at Stennis?



- Companies eligible to locate at Stennis must:
 - Align with the missions of NASA or Federal tenants located at Stennis that includes aerospace, defense, emerging technology, and information technology
 - Example eligibility guidelines include, but are not limited to:
 - Aerospace contractors and commercial space service providers supporting U.S. government and private space initiatives
 - Spacecraft and/or rocket propulsion fabrication, assembly, component manufacturing, and testing
 - Contractors and commercial service providers supporting SSC tenant missions and initiatives
 - Autonomous and unmanned systems spanning air, marine, and ground
 - Advanced technology supporting NASA and SSC tenant missions
 - Information Technology
 - Advanced Security Technology
 - Education/university high tech research
 - While all business types cannot be accommodated, the NASA and Stennis Federal tenant missions offer a broad array of businesses to target for locating at Stennis



SSC Website and The Digital Front Door



Front Door

Whether you represent industry, government, or academia, step inside and explore the capabilities, services, technologies, and opportunities NASA Stennis provides. Connect with us as we expand frontiers in exploration, technology, and the space economy.

Step Inside

Front Door Landing Page





Capabilities & Services

Delve into the capabilities and services that NASA Stennis can provide to programs and partners.

More on Available Services 😔



Technology Development

Learn more about technologies being developed at NASA Stennis.

More on Technologies 😑



Partner with NASA

Explore partnerships and job opportunities with NASA, government agencies, and contractors at NASA Stennis.

More on Partnerships 😔



Strategic Plan

Learn more about NASA Stennis' plan to meet the challenges of a changing world and transform the way it does business.

Download the Strategic Plan 😔



Competitive Opportunities

Discover open opportunities and how you can contribute to the NASA mission.

More on Opportunities 😑



NASA's Impact in Mississippi

Learn about NASA's impact on the nation and Mississippi communities.

More on NASA's Impact 😔

Capabilities and Services





Propulsion Test Engineering

Learn about NASA Stennis propulsion testing and engineering capabilities that support research and development as well as acceptance testing of components, rocket engines, and rocket stages for government and industry.

More on Propulsion Capabilities 🗧



Multi-User Test Complex

Learn about the multi-user test complex and the unique capabilities of the propulsion test stands and support infrastructure at NASA Stennis.

More on Propulsion Test Stands 🤤



Federal City

Learn about the location that is home to 50+ institutions employing over 5,200 people. Discover opportunities to lease facilities, develop greenfield sites, and leverage the unique 125,000-acre buffer zone that surrounds the site and enables 24/7 operations.

More on the Federal City 😔



Range and Airspace Operations

Learn about the NASA Stennis restricted airspace that covers over 100 square miles and the 7.5-mile-long canal system that connects to the Gulf of Mexico via the Pearl River. Discover how you can request access to these assets.

More on Range Operations 🗧

Autonomous Systems

Learn about the Autonomous Systems Laboratory (ASL) and its expertise in safe-by-design autonomous systems, model-based digital twins, integrated systems health management (aka FDIR), and reusable models that reduce the cost, time, and risk to deploy autonomous solutions.

More on Autonomous Systems 😔









Stennis Space Center Strategic Business Development





