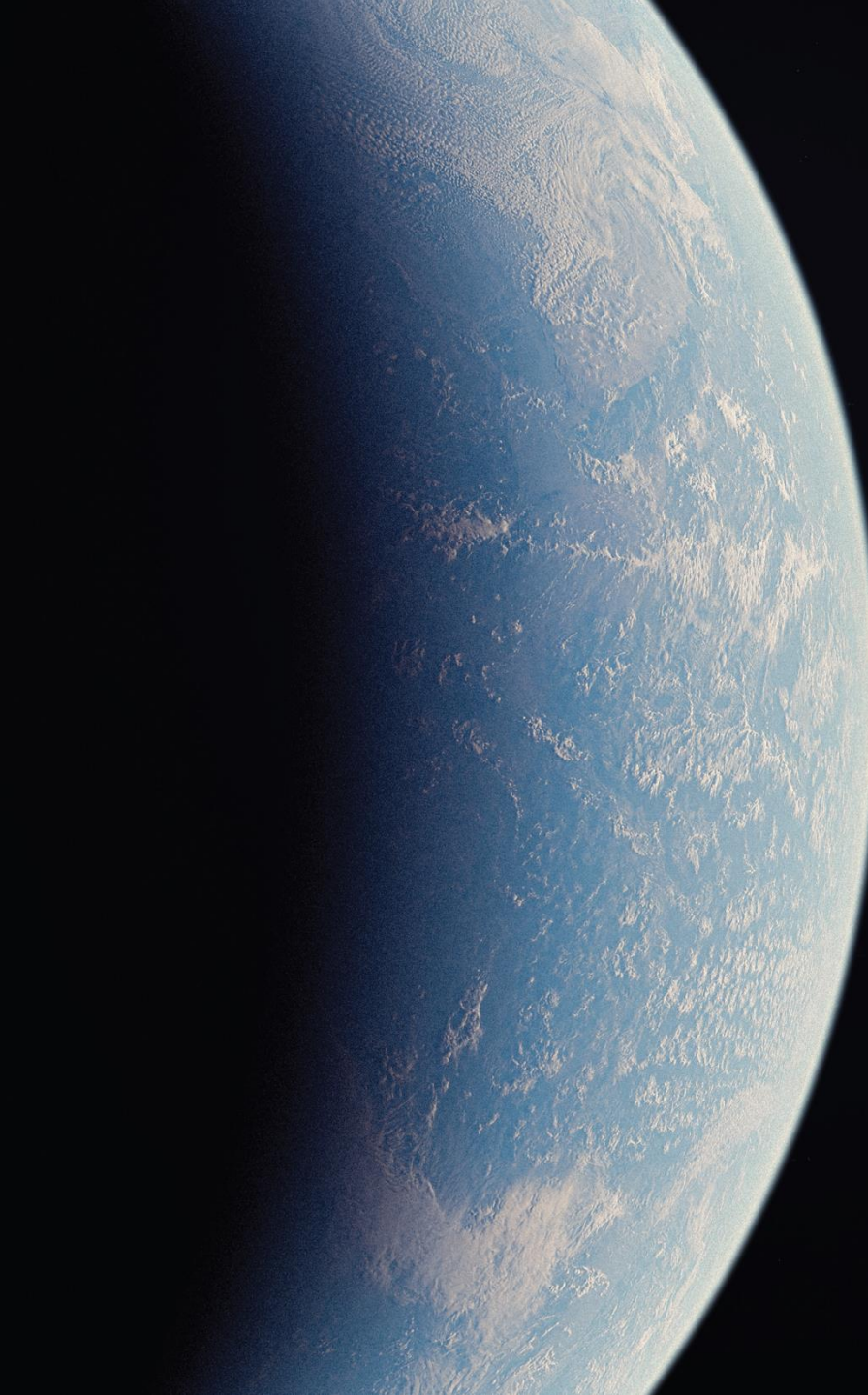


National Aeronautics and
Space Administration



STMD: Shaping the missions of tomorrow

ASEB/SBB Meeting

Clayton Turner | Associate Administrator | NASA's Space Technology Mission Directorate (STMD)

July 23 2025

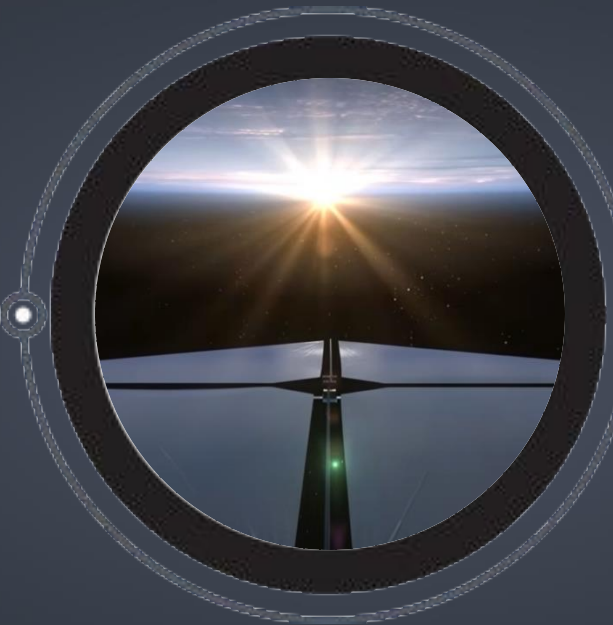
nasa.gov/spacete.ch

SPACE TECHNOLOGY MISSION DIRECTORATE

The work we do today is shaping the missions of the future while delivering the cutting-edge technology that defines American leadership in space exploration for years to come



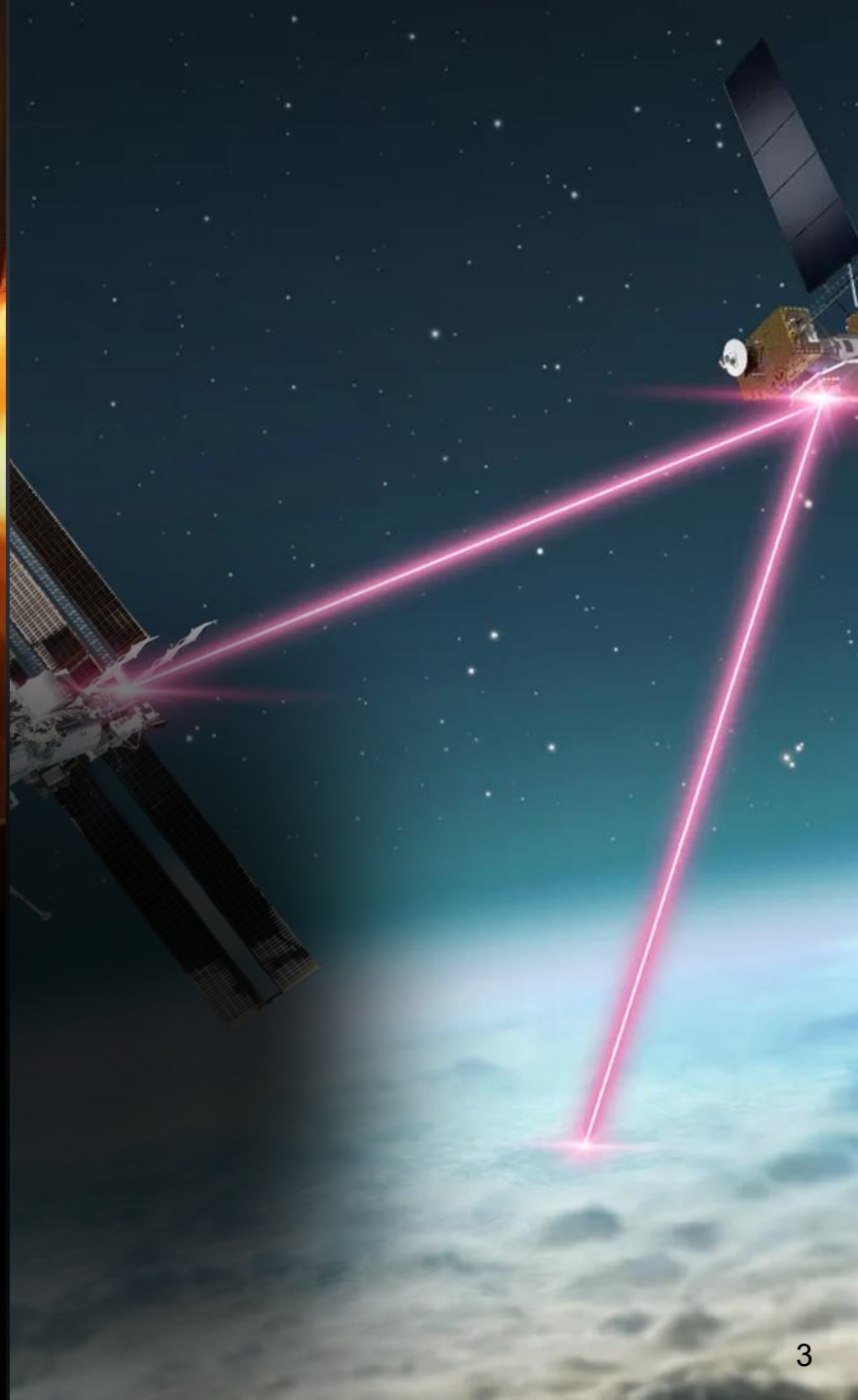
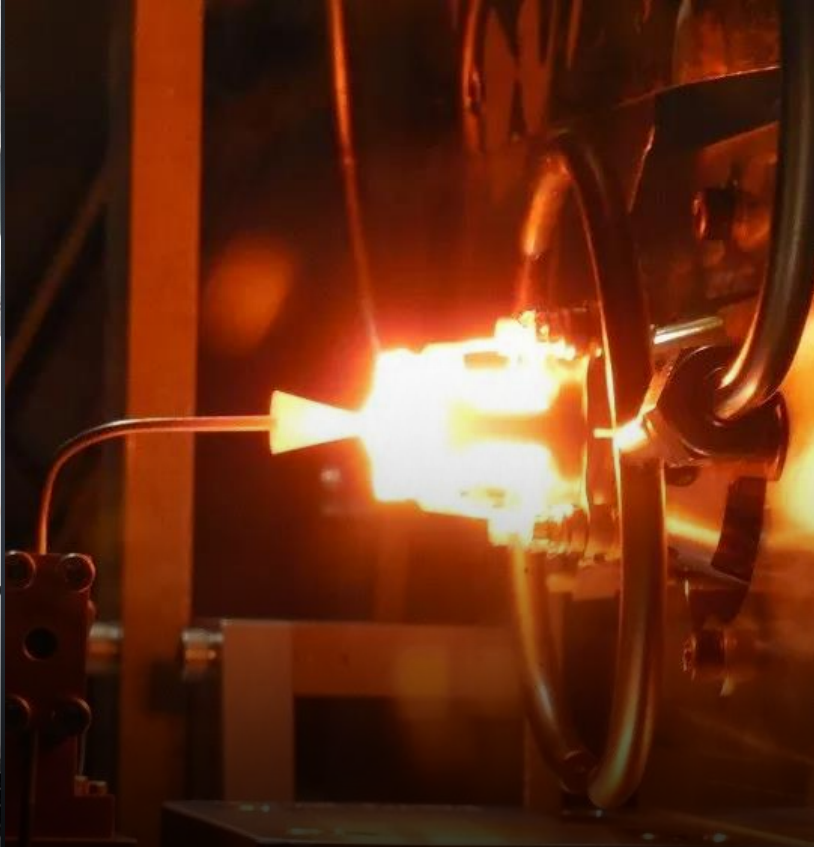
ADVANCE US space technology innovation and competitiveness in a global context



FOSTER innovation by cultivating breakthrough ideas, embracing risk, and fueling a competitive space economy



DRIVE a powerful U.S. aerospace technology community to improve life on Earth and in space



ADVANCE

U.S. space technology innovation and competitiveness in a global context

ADVANCE

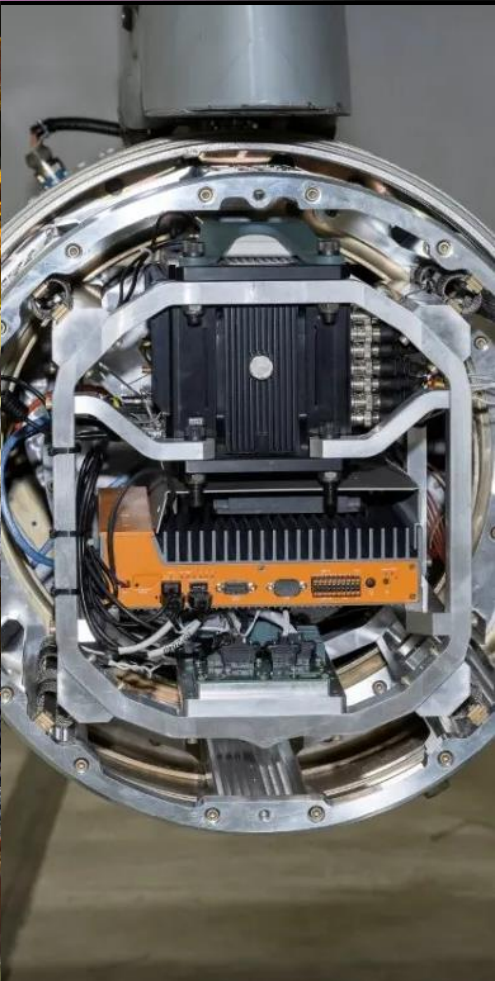
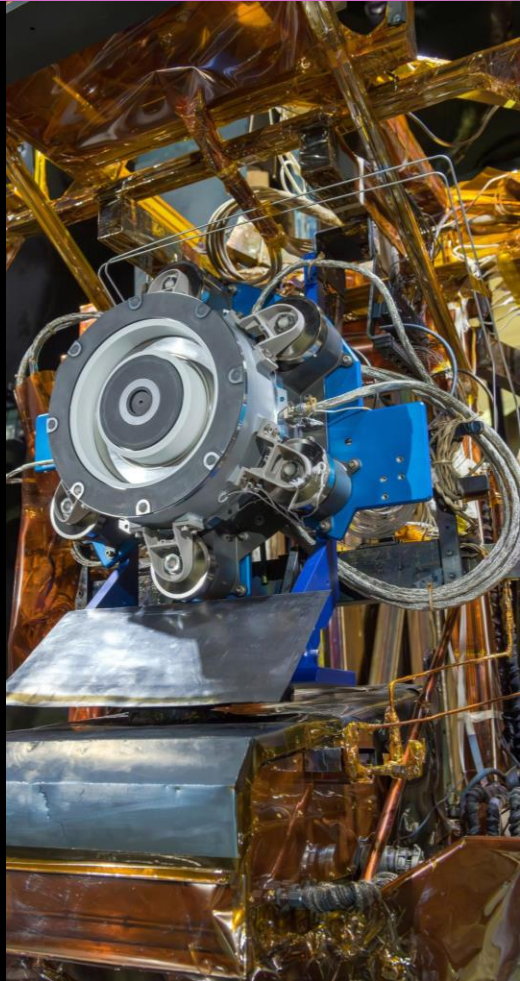
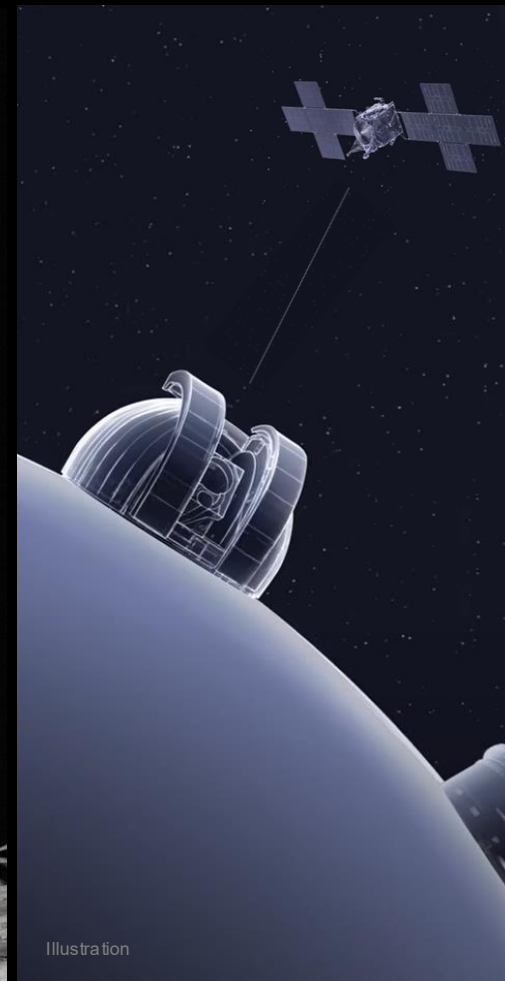
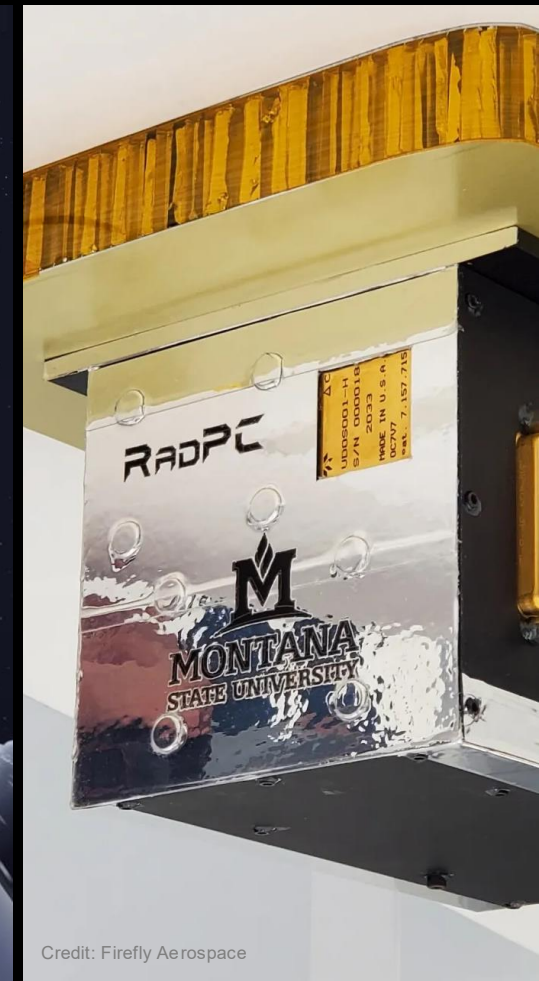


Illustration
Credit: Astrobotic Technology



Illustration



Credit: Firefly Aerospace

**Space
Transportation**

**Space to Surface
Operations**

**Surface
Infrastructure/
Exploration**

**In-Space Discovery/
Infrastructure**

**Foundational
Capabilities**

ADVANCE



Credit: Firefly Aerospace



Credit: Intuitive Machines

A futuristic lunar base is depicted on the moon's surface. In the foreground, a white rover with a large, articulated arm is positioned on a paved area. In the background, a small white habitat with a yellow door is visible, with an astronaut standing nearby. The moon's surface is rocky and cratered, and the Earth is visible in the dark sky above.

FOSTER

Innovation by cultivating breakthrough ideas,
embracing risk, and fueling a competitive
space economy

FOSTER

Credit: SpaceX



Industry Partnerships



Small Business Research & Development



Flight Opportunities



Small Spacecraft Technology

A photograph of an astronaut on the moon surface. The astronaut is wearing a white spacesuit and is kneeling on the dark, rocky terrain. In the background, there is a lunar lander with a yellow and black exterior, illuminated by bright lights. The sky is black, and there are some large, circular objects hanging from above. The overall scene is dimly lit, with the primary light source being the lander's lights and a small light on the ground in the foreground.

DRIVE

Develop a powerful U.S. aerospace technology community to improve life here on Earth and in space

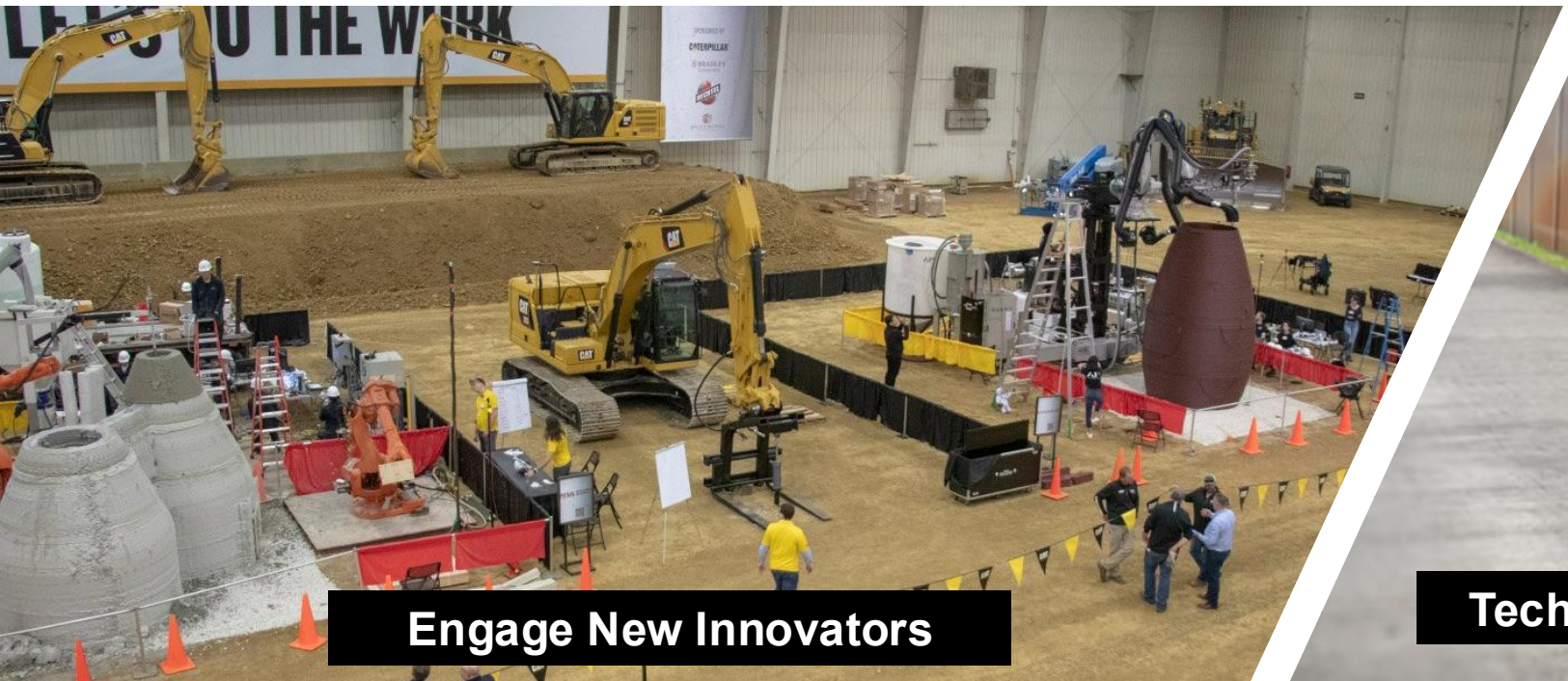
DRIVE



Opportunities for Workforce



Early-Stage Research



Engage New Innovators



Technology Transfer



SPACE TECHNOLOGY MISSION DIRECTORATE
TECHNOLOGY DRIVES EXPLORATION



REACH
— NEW —
HEIGHTS

REVEAL
— THE —
UNKNOWN

BENEFIT
— ALL —
HUMANKIND