

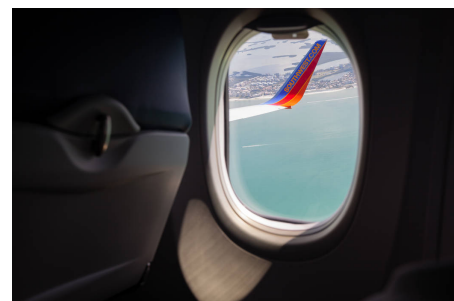
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

STONY BROOK UNIVERSITY urges Congress to provide at least \$7.5 billion for NASA's Science Mission Directorate in FY20.

For nearly 60 years, NASA has captivated the public with accomplishments that have led to new technologies and revolutionized our understanding of space sciences, the life sciences and aeronautics. Through its various mission directorates, NASA seeks new knowledge and understanding of Earth, the solar system and the universe to reveal the unknown and benefit humankind.

How does NASA research directly benefit you?

- Whether you take pictures and videos with a DSLR camera or cell phone, or even capture action on the go with a device like a GoPro Hero, you're using digital image sensors, a NASA technology.
- NASA is with you when you fly. Key aerodynamic advances made by NASA researchers led to the upturned tips of wings known as "winglets."
- While developing life support systems for Mars missions, NASA-funded researchers discovered a natural source for an omega-3 fatty acid that is now incorporated into more than 90 percent of baby formulas on the market.



Source: NASA 2019

SBU recommends at least \$790 million for the Aeronautics directorate.

- Leads to advances in the safety, capacity and efficiency of the air transportation systems that we use on a daily basis

SBU recommends at least \$973 million for the Space Technology directorate.

- Sparks new technologies benefiting the nation's aerospace and high-technology industries

SBU recommends \$50 million for the Space Grant program.

- Enabled over 24,000 undergraduate and graduate students to receive scholarships, fellowships, and internships... providing inspiration for the next generation of NASA researchers

Highlights From Stony Brook University's Recent NASA Funded Research:

- Remote sensing to determine the mineralogy of the Martian surfaces, advancing future exploration of those surfaces including Near Earth Asteroids and the moons of Mars
- Developing treatments for behavioral health problems in order to enhance the performance of astronauts during their high risk flights
- Studying Extratropical Cyclone Activity (ECA), which could lead to major advances in weather prediction

For the U.S. to remain the global leader in space, the nation must continue to make robust investments in NASA's Science Mission, Aeronautics, and Space Technology directorates.



**Stony Brook
University**