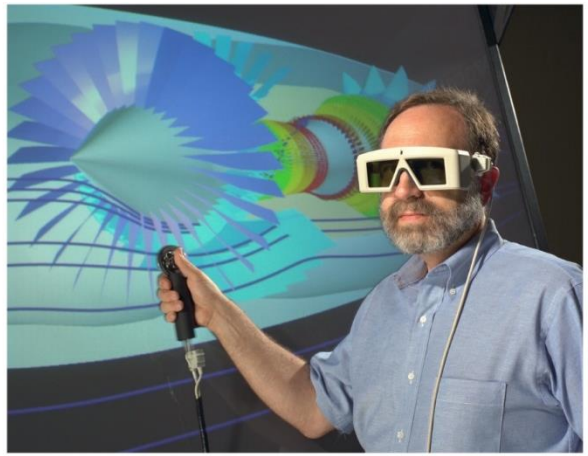
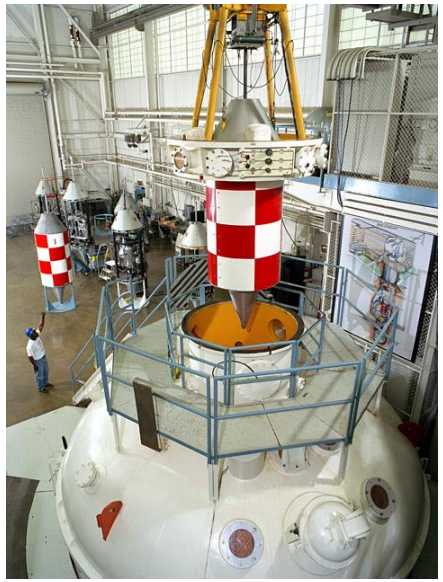
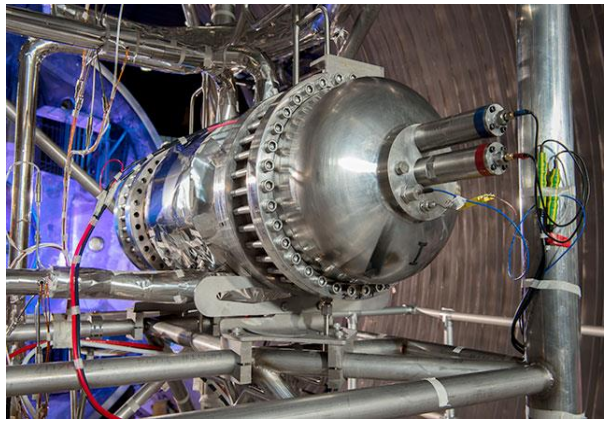
NASA Glenn Research Center Tours



Graphic and Visualization Laboratory
The Graphics & Visualization (GVIS) Lab provides specialized services, expertise, and facilities for the visualization of scientific data, engineering analyses, and mission scenarios.



The **Zero Gravity Research Facility** is NASA's premier facility for ground based microgravity research, and the largest facility of its kind in the World. Supports research and development of space flight components and fluid systems, in a weightless or microgravity environment. The facility is currently used by NASA funded researchers from around the world to study the effects of microgravity on physical phenomena such as combustion and fluid physics, to develop and demonstrate new technology for future space missions, and to develop and test experiment hardware designed for flight aboard the International Space Station or future spacecraft.



Electric Propulsion Laboratory (EPL)
Supports research and development of spacecraft power and electric propulsion systems. EPL features two very large space environment simulation chambers; intermediate and smaller environment simulation chambers suitable for testing small engines or components; bell jars used for development and small-scale component testing; and support areas including an electronics shop, machine shop, clean room, and office space.

The SLOPE lab has test rigs and equipment used for studying the traction and power consumption of lunar vehicles and other machines operating in soil.

- 12m x 6m x 0.3m soil tank is used for flat surface operations.
- 7m x 5m x 0.3m adjustable tilting (0 to 45°) soil tank is used for sloped surface operations.
- Dedicated wheel-test vehicle can be configured to 4x4 or 6x6 mode.
- Drawbar pull rig applies controlled pull force to a test vehicle while wheel slip is recorded.
- Portable bevameter used to analyze the surface strength of a terrain, which facilitates modeling of the terrain-machine interactions.