GAGE is a distributed, multiuser, national facility for the development, deployment and operational support of modern geodetic instrumentation that serve national goals in basic research and education in the Earth sciences.

NSF funds a suite of ground-based telescopes and observatories that use cutting-edge technology to explore the universe and advance astronomical research. This includes many of the world's most renowned observatories – ALMA, Arecibo, DKIST, Gemini, IceCube, LIGO, Rubin, VLA.

The JOIDES Resolution, an ocean-drilling research vessel that is part of the IODP, conducts sea-floor drilling to study Earth's oceans and paleoclimate and maintains several ocean drill sites around the world.

NSF supports two particle physics detectors—ATLAS and CMS—at the LHC in Switzerland, the world's largest, most powerful particle accelerator.

NSF has begun the planning process for a Leadership-Class Computing Facility (LCCF). LCCF will be a distributed computational facility that will provision world-class computational and data analytics capabilities, as well as critical software and services to support all Science & Engineering research in the nation.

NCAR is a research and development center devoted to understanding and transferring knowledge about the behavior of the atmosphere and related Earth and geospace systems.

NSF funds the operation by the Woods Hole Oceanographic Institution of three deep-sea exploration vehicles: Alvin, a human-occupied vehicle; JASON, a remotely-operated vehicle; and SENTRY, an autonomous underwater vehicle.

NEON is a continental-scale ecological observatory that enables fundamental research on biological responses to shifting environmental conditions, land-use changes and invasive species.

NSF supports the operation of the National High Magnetic Field Laboratory (NHMFL), the largest and highest-powered magnet laboratory in the world, used by thousands of scientists every year who are probing fundamental questions about materials, energy, environment and life.

NSF installed a network of instruments, undersea cables and moorings to span the Western Hemisphere that measures physical, chemical, geological and biological phenomena in key coastal, regional and global areas.

NSF's Office of Polar Programs supports world-class Arctic and Antarctic science through grants to researchers across the U.S. and by providing polar facilities and operational support.

SAGE is a distributed, multiuser, national facility for the development, deployment and operational support of modern digital seismic and related geophysical instrumentation that serve national goals in basic research and education in the Earth sciences.

NSF, in partnership with other Federal agencies, supports the U.S. Academic Research Fleet, including the NSF-owned vessels.