



# NSF-SUPPORTED RESEARCH INFRASTRUCTURE:

*ENABLING DISCOVERY,  
INNOVATION AND LEARNING*



NATIONAL SCIENCE FOUNDATION

**On the cover:** a collage illustrating NSF-supported research infrastructure. Top row, from left to right: Ranger, the new high performance computing system at the Texas Advanced Computing Center at the University of Texas at Austin; the National High Magnetic Field Laboratory's 45 tesla hybrid magnet; and the first commercial prototype of a super-resolution optical microscope based on structured illumination, installed at the Center for Biophotonics Science and Technology at the University of California, Davis; middle row: the Tsunami Wave Basin at Oregon State University; a visualization of a protein from the Protein Data Bank, shown on a configurable wall for projecting images at the California Institute for Telecommunications and Information Technology at the University of California, San Diego; and the Amundsen-Scott South Pole Station with the ceremonial South Pole in the foreground; bottom row: researchers in the Arkansas Nanoscience Program using scanning probe microscopy; the High-Performance Instrumented Airborne Platform for Environmental Research (HIAPER), the nation's most advanced aircraft for environmental research; and an artist's conception of the Atacama Large Millimeter Array (ALMA), the giant international observatory under construction in the Atacama Desert in northern Chile. *Credit: Top row, from left to right: TACC, The University of Texas at Austin; Florida State University; Thomas Huser, Center for Biophotonics Science and Technology, University of California, Davis. Middle row: College of Engineering, Oregon State University; Jurgen Schulze, Calit2, UC-San Diego; Dwight Bohnet, National Science Foundation. Bottom row: Nanoscience Program, University of Arkansas; The National Center for Atmospheric Research (NCAR); ALMA/ESO/NRAO/NAOJ*

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