## **FACTS**



#### Purpose

Produce excellent science in a safe, environmentally sound manner with the cooperation, support, and appropriate involvement of the Laboratory's many communities.

#### Location

Upton, New York (on Long Island)

#### **Funding**

\$510 million for fiscal year 2007, primarily from the U.S. Department of Energy (DOE), distributed as follows:

- Science: \$360M
- Environmental management: \$31M
- National security: \$36M
- Energy and other: \$17M

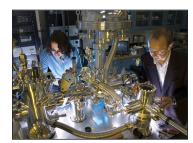
Plus \$66M from other agencies

#### Management

Brookhaven Lab is operated and managed for DOE's Office of Science by Brookhaven Science Associates, a limited-liability company founded by the Research Foundation of the State University of New York on behalf of Stony Brook University, the largest academic user of the Lab's facilities, and Battelle, a nonprofit, applied science and technology organization.

#### Staff

About 2,600 scientists, engineers, technicians and support staff; more than 5,000 guest researchers annually.



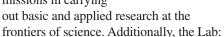
Each year, some 5,000 scientists from around the world visit Brookhaven to use the Lab's unique research facilities.

# About Brookhaven National Laboratory

Brookhaven employs about 2,600 scientists,

technicians, engineers, and support staff.

Established in 1947, Brookhaven National Laboratory is a multidisciplinary research institution operated by Brookhaven Science Associates for the U.S. Department of Energy (DOE). Home to six Nobel-Prizewinning discoveries, Brookhaven supports DOE's strategic missions in carrying



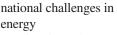
- Conceives, constructs and operates complex, leading-edge, user-oriented research facilities
- Develops advanced technologies that address national needs and initiates their transfer to other organizations and to the commercial sector
- Disseminates technical knowledge to educate future generations of scientists and engineers
- Maintains technical currency in the nation's workforce and encourages scientific awareness in the general public.

### **Key Programs**

- Nuclear and high-energy physics
- Physics and chemistry of materials
- Nanoscience
- Energy and environmental research
- National security and nonproliferation
- Neurosciences and medical imaging
- Structural biology
- Computational sciences

#### **Major Facilities**

- Relativistic Heavy Ion Collider (RHIC), a particle accelerator dedicated to studying the fundamental forces and properties of matter
- Center for Functional Nanomaterials, a hub for cutting-edge studies of materials and properties on the order of billionths of a meter aimed at addressing our



- National Synchrotron Light Source (NSLS), a source of intense x-ray, infrared, and ultraviolet light that attracts researchers from around the world
- NSLS-II, a planned successor to NSLS with 10,000 times the brightness
- Alternating Gradient

Synchrotron, home of three Nobel Prizes and many pivotal discoveries in high-energy and nuclear physics

- NASA Space Radiation Laboratory, for studying the effects of simulated cosmic rays, as might be encountered by future astronauts
- Accelerator Test Facility, the nation's proving ground for new concepts in generating, accelerating, and monitoring particle beams
- Center for Translational Neuroimaging, a suite of tools to investigate the neurological underpinnings of conditions such as addiction, obesity, and aging

#### **Significant Discoveries**

- Six Nobel Prizes, including 2002 in physics and 2003 in chemistry
- Evidence that matter existed as a "perfect" liquid in the early universe
- L-dopa for Parkinson's disease
- First synthesis of human insulin
- Researching pollution-eating bacteria
- Brain-scan studies of addiction, mental illness, and aging
- Advances in understanding hightemperature superconductors
- Energy technology studies
- Technetium-99m, used to diagnose heart disease and other ailments in 11 million people annually
- Advanced coatings for corrosion prevention
- Magnetically levitated trains (Maglev)