

## 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). Plus \$66M from other agencies

## Management

Brookhaven Lab is operated and managed for DOE's Office of Science by Brookhaven Science Associates

## Major Facilities

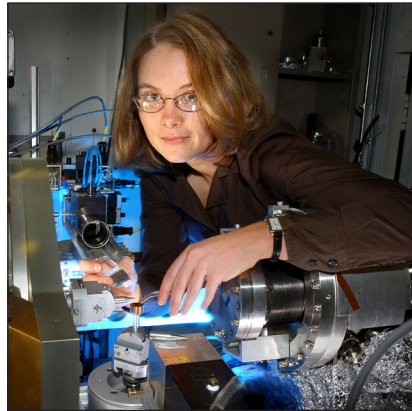
- Relativistic Heavy Ion Collider, a particle accelerator studying the fundamental forces and properties of matter
- Center for Functional Nanomaterials, addressing our national challenges in energy
- National Synchrotron Light Source, a source of intense x-ray, infrared and ultraviolet light
- New York Blue, one of the fastest supercomputers in the world
- NASA Space Radiation Laboratory, studying the effects of cosmic rays
- Center for Translational Neuroimaging, investigating addiction, obesity, and aging



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 National Laboratory is a multi-disciplinary research institution operated by Brookhaven Science Associates for the U.S. Department of Energy (DOE). Home to seven Nobel-Prize-winning discoveries, Brookhaven supports DOE's strategic missions in carrying out basic and applied research at the frontiers of science.



## 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

## Economic Engine

With 2,600 employees, more than 5,000 guest researchers, and an annual budget of over \$500 million, Brookhaven Lab has a major, positive impact on New York State. In fiscal year 2007, employee salaries, wages and fringe benefits accounted for over \$280 million of the Laboratory's total annual budget.

In addition, Brookhaven purchased over \$57 million worth of supplies and services from New York businesses. From 1993 through 2003, Brookhaven Lab spent \$4.79 billion, which caused New York State's output of goods and services to increase by \$9.2 billion and generated almost 79,000 secondary jobs in the state.

## The Future

In 2009 Brookhaven will begin construction of a new light source, National Synchrotron Light Source II (NSLS-II). It will provide the world's finest x-ray capabilities for basic and applied research in biology and medicine, materials and chemical sciences, environmental and

geosciences, and nanoscience. This facility, which will be used by industries, academia and others from across the state and nation, is expected to reinforce U.S. scientific leadership, giving researchers here a competitive advantage that will benefit the New York State and national economy.

In collaboration with Stony Brook University, Brookhaven is also planning an associated intellectual center, the Joint Photon Sciences Institute (JPSI). This state-funded companion to NSLS-II will serve as a center for the development and application of the photon sciences. JPSI will bring together scientists and engineers from state academic institutions and industries to identify scientific challenges, develop solutions and transfer the technology to state industries.

Construction and operation of the NSLS-II and JPSI facilities are part of an overall plan for Brookhaven Lab expected to yield a significant benefit for New York State over the next five years. Through 2014, Brookhaven's overall spending could total nearly \$5.6 billion. This includes more than \$4.7 billion in operating and equipment expenditures and approximately \$864 million in construction spending. More than 91,000 jobs would be created statewide and virtually all industries, including some of the state's key manufacturing industries, would benefit.