

## DEPARTMENT OF ENERGY OFFICE OF SCIENCE

The Department of Energy's (DOE) Office of Science is the nation's largest supporter of research in the physical sciences and plays a dominant role in underwriting engineering, mathematics, and computer research. It is the principal funding agency for high-energy physics, nuclear physics and fusion energy sciences, and it is the single largest sponsor of materials and chemical sciences. The programs and national user facilities run by the DOE Office of Science are vital to the nation's research investment.

- The Office of Science provides more than 40% of the total research funding for physical sciences in the United States and it is a principal supporter of graduate students and post-doctoral researchers early in their careers. Approximately one-third of its research funding goes to support research at more than 300 colleges and universities nationwide.
- The Office of Science manages 10 laboratories and oversees the construction and operation of some of the nation's most advanced R&D user facilities, located at national laboratories and universities
- The Office supports discoveries in new fields such as biotechnology, nanotechnology and supercomputing that will be critical to our 21<sup>st</sup> century economy.
- DOE Office of Science-funded advancements include:
  - Medical research into an artificial retina, which can restore sight in blind patients with macular degeneration, retinitis pigmentosa and other eye diseases.
  - The first supercomputer available to the civilian research community that broke the peak performance barrier of 1 teraflop – or a trillion operations per second.
  - New holographic computerized imaging technology that identifies hidden weapons, even non-metallic ones, through the clothing of airline passengers.

**OSA urges Congress to make science research a national priority in the FY 2013 budget.**



## DOE Office of Science Budget

### **FY 2012**

Total FY 2012 Budget: \$4.8 billion

### **FY 2013 Budget Request**

President Obama has requested \$5.4 billion

- This is an increase of \$118 million, or 2.4%, from FY 2012

About 26,000 researchers from universities, national laboratories, industry, and international partners are expected to use the Office of Science scientific user facilities in FY 2013.

The increase will be used to expand research directed at approaches to creating new technologies for a clean energy future that address competing demands on our environment.

These efforts will emphasize research underpinning advances in non-carbon emitting energy sources, carbon capture and sequestration, transportation and fuel switching, transmission and energy storage, efficiency, and critical materials for energy applications.