



Nuclear Physics DC Day

Washington, DC • March 23, 2015

Support Nuclear Physics Research

“Measured by its impact on society, the return on investments made by the U.S. in nuclear science research is large... If the past can be used as a guide, the isotopes, data, and technologies nuclear science will generate in the coming years will provide substantial new benefits to society...”

- DOE/NSF Nuclear Science Advisory Committee

U.S. investments in nuclear science have produced extraordinary discoveries and dramatic technical advances that have fueled the nation’s economy and produced the world’s most highly skilled, tech-savvy workforce. The reason is clear: the quest for understanding the universe and the properties of its fundamental particles and forces inspires and attracts the world’s best and brightest minds.

DOE nuclear physics funding drives technical innovation in fields far removed from the original research, including modern medical imaging, drug design, cancer treatments, cargo inspection, criminal forensics, energy production and climate modeling.

In addition to sponsoring investigator-initiated scientific inquiry, DOE Office of Science supports three major facilities that enable scientists from across the country to pursue critical research:

- **The Continuous Electron Beam Accelerator Facility (CEBAF)** in Virginia, where more than 1,300 scientists study the fundamental structure of protons, neutrons, and nuclei and the force that bind them.
- **The Relativistic Heavy Ion Collider (RHIC)** in New York, where over 1,200 researchers recreate the conditions of the very early universe to study a new state of matter, the hottest matter ever produced on Earth, and explore its fundamental constituents and forces.
- **The Facility for Rare Isotope Beams (FRIB)** under construction in Michigan, which will provide intense beams of rare isotopes to help over 1,300 scientists better understand the characteristics of atomic nuclei, their origin in the cosmos, and their potential applications.

The U.S. nuclear physics research community is grateful to Congress and the Administration for its strong, continued support for this critical, yet sometimes underappreciated discipline.

Our Ask: Support the President’s FY 2016 budget request for the U.S. Department of Energy Office of Science, particularly the \$624.6 million provided for Nuclear Physics. This funding level would allow the U.S. nuclear physics community to maintain our nation’s leadership role in the field, continue groundbreaking basic research, develop new technologies to benefit society, and educate the next generation of scientists.

	FY 15 Enacted	FY 16 Request	% Increase
U.S. Department of Energy (DOE)	\$27.4B	\$29.92B	9.2%
DOE Office of Science (SC)	\$5.06B	\$5.33B	5.4%
DOE/SC Nuclear Physics	\$595.5M	\$624.6M	4.9%