

Title	University	Investigator	Total Budget*
Quantum Simulations for Dense Matter	University of Illinois	Ceperley, David	\$460,000
Detailed Measurements of Turbulent Rayleigh-Taylor Mixing at Large and Small Atwood Numbers	Texas A&M University	Ranjan, Devesh	\$360,000
Enhanced Functionality for Materials Analysis in the DTEM	University of California, Davis	Browning, Nigel	\$600,000
Magnetic and Structural Properties of f-electron Systems at High Pressure: Experiments and Theory	University of California, Davis	Scalettar, Richard	\$450,000
Dynamic Response of Nanostructured Single and Multilayer Metals	University of Illinois	Robertson, Ian	\$675,000
Thermoelasticity of SSP Materials: An Integrated Acoustic and Diffraction Study at High-P and High-T	Stony Brook University	Li, Baosheng	\$675,000
Soft X-Ray Shock Loading and Momentum Coupling in Meteorite and Planetary Material	Harvard University	Jacobsen, Stein	\$570,000
Novel d- and f-Electron Materials Under Extreme Conditions of Pressure, Temperature, and Magnetic Field	University of California, San Diego	Maple, Brian	\$720,000
Viscosities of Highly Compressed Fluids	University of Washington	Abramson, Evan	\$480,000
Precision Photo-Induced Cross-Section Measurements Using the Monoenergetic and Polarized Gamma Beams at HIGS	Duke University	Tonchev, Anton	\$900,000
Development of New Techniques to Determine Neutron Induced Reaction Rates	Texas A&M University	Tribble, Robert	\$642,370
Neutron Induced Reaction on Specific Nuclei	Duke University	Tornow, Werner	\$620,000
Studies in Low Energy Nuclear Science	Ohio University	Brune, Carl	\$800,000
Cross Sections, Level Densities and Strength Functions	North Carolina State University	Mitchell, Gary	\$800,000
Microscopic Description of the Fission Process	University of Tennessee	Nazarewicz, Witold	\$365,866
Experiments with a Lead Slowing Down Spectrometer and Fission Neutrons	Rensselaer Polytechnic Institute	Danon, Yaron	\$645,000
Nuclear Stewardship Research at the University of Richmond	University of Richmond	Beausang, Con	\$510,000
Hydrogen and its Isotopes at High Pressure	Harvard University	Silvera, Isaac	\$450,000
Structure and Dynamics of Materials Under Extreme Conditions	University of California, Berkeley	Falcone, Roger	\$675,000
Incipient Spall in Metallic Materials: A Three Dimensional Study of the Microstructural Characteristics of Damage Nucleation Sites	Arizona State University	Peralta, Pedro	\$435,000

Structural and Magnetic Studies on Heavy Rare Earth Metals at High Pressures using Designer Diamonds in Support of the Stockpile Stewardship Program	University of Alabama	Vohra, Yogesh	\$480,000
Shock-Driven Multiphase Hydrodynamics Experiments for Hydrocode Validation	University of New Mexico	Vorobieff, Peter	\$540,000
Electron Interactions in Actinides and Related Systems Under Extreme Conditions	Florida State University	Tozer, Stan	\$1,410,000
Neutron-Induced Fission Cross Section Measurements on Rare Actinide Isotopes: Americium-240 and uranium-237	University of California, Berkeley	Nitsche, Heino	\$600,000
Digital Waveform Sampling of Neutron and Gamma Ray Signals from Scintillation Detectors for Pulse Shape Discrimination and Pulse Height Analysis	University of Michigan	Pozzi, Sara	\$465,000
Neutron Capture Measurements on ¹⁷¹ Tm and ¹⁴⁷ Pm	University of Nevada, Las Vegas	Sudowe, Ralf	\$600,000
Development and Testing of an Inexpensive Capture-Gated Neutron Spectrometer	Brigham Young University	Rees, Lawrence	\$300,000
Measurements of Low-Energy Neutrons from Neutron-Induced Fission	University of Kentucky	Kovash, Michael	\$450,000
Design and Fabrication of a Novel, Multi-Element Scintillation Detector Exhibiting Enhanced Energy and Spatial Resolution for Measuring Low Energy Photons	University of Cincinnati	Spitz, Henry	\$450,000
Fission Fragment Distribution Measurements at the ALEXIS Facility of LLNL	Colorado School of Mines	Greife, Uwe	\$450,000

Current Centers of Excellence have a term of five years and are as follows:

Title	University	Investigator	Total Budget*
Center for the Study of Pulsed-Power-Driven High Energy Density Plasmas	Cornell University	Kusse, Bruce	6,500,000
Center of Excellence for High Pressure Science and Technology	Carnegie Institution of Washington	Hemley, Russell	\$15,000,000
Center of Excellence for Radioactive Ion Beam Studies for Stewardship Science	Rutgers University	Ciswiski, Jolie	\$6,842,967
The Texas Center for High Intensity Laser Science	University of Texas at Austin	Ditmire, Todd	\$7,100,000

*The dollar amount shown represents the planned award amount over the award period. The total actual award amount may be more or less depending on the outcome of progress reviews and available funding.