

Science and Technology

Federal Agency:	Office of Science
Program Title:	Scientific Discovery through Advanced Computing Institutes: Scientific Data Management, Analysis and Visualization
CFDA Number:	81.049 Office of Science Financial Assistance Program
Closing Date:	Letter of Intent: October 12, 2011; Full Application: November 9, 2011
Link:	http://www.science.doe.gov/grants/pdf/SC_FOA_0000589.pdf
Estimated Grant Awards:	\$5,000,000 per year for 5 years; supports one collaborative institute comprised of multiple stakeholders.
Description:	Supports a proposed SciDAC Institute that will serve as a contact point for scientists participating in partnerships seeking ASCR-supported collaborators who will work with them to manage and understand their scientific data. The Institute will be the primary mechanism for transferring technical solutions into operational use by application scientists on leadership-class computing facilities over the next 5 years.

Federal Agency:	Office of Science
Program Title:	Scientific Discovery through Advanced Computing: Nuclear Physics (SciDAC)
CFDA Number:	81.049 Office of Science Financial Assistance Program
Closing Date:	January 5, 2012
Link:	http://www.science.doe.gov/grants/pdf/SC_FOA_0000581.pdf
Estimated Grant Awards:	\$4,000,000 per year for 5 years; supports one collaborative institute comprised of multiple stakeholders.
Description:	Supports research on current high-profile computationally intensive topics in theoretical nuclear physics of direct relevance to the experimental research programs at existing or approved NP facilities.

Federal Agency:	Office of Science
Program Title:	Scientific Discovery through Advanced Computing: Computational High Energy Physics
CFDA Number:	81.049 Office of Science Financial Assistance Program
Closing Date:	January 9, 2012
Link:	http://www.science.doe.gov/grants/pdf/SC_FOA_0000580.pdf
Estimated Grant Awards:	\$4,000,000 per year for 3 years; supports one collaborative institute comprised of multiple stakeholders.
Description:	Supports research in the area of Computational High Energy Physics, specifically Cosmic Frontier Scientific Simulations (CFSS), Lattice Gauge Theory Research (LGTR), and Accelerator Science Modeling and Simulation (ASMS).

Federal Agency:	Office of Science
Program Title:	Scientific Discovery through Advanced Computing: Scientific Computation Application Partnerships in Earth System Science
CFDA Number:	81.049 Office of Science Financial Assistance Program
Closing Date:	December 5, 2011
Link:	http://www.science.doe.gov/grants/pdf/SC_FOA_0000588.pdf

Estimated Grant Awards:	\$6,500,000 per year for 5 years; supports one collaborative institute comprised of multiple stakeholders.
Description:	Supports collaborative researchers for the Office of Biological and Environmental Research's Earth System Modeling research, which aims to advance the simulation and predictive capabilities of state-of-science climate modeling.

Federal Agency:	National Science Foundation
Program Title:	Software Infrastructure for Sustained Innovation
CFDA Number:	47.041 Engineering Grants; 47.049 Mathematical and Physical Sciences; 47.070 Computer and Information Science and Engineering; 47.074 Biological Sciences; 47.080 Office of Cyberinfrastructure
Closing Date:	December 14, 2011
Link:	http://www.nsf.gov/pubs/2011/nsf11589/nsf11589.htm
Estimated Grant Awards:	\$5,000,000; 8 – 12 awards; typically ranging from \$150,000-\$500,000; 1 year
Description:	Establishes Scientific Software Innovation Institutes that will (1) focus on the founding of long-term hubs of excellence in software infrastructure and technologies and (2) will serve a research community of substantial size and disciplinary breadth.

Federal Agency:	National Science Foundation
Program Title:	Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences
CFDA Number:	47.049 Mathematical and Physical Sciences; 47.080 Office of Cyberinfrastructure
Closing Date:	January 23, 2012
Link:	http://www.nsf.gov/pubs/2010/nsf10553/nsf10553.pdf
Estimated Grant Awards:	\$2,000,000; 6-8 awards ranging from \$50,000-\$250,000 per year for up to 5 years
Description:	Supports broadly innovative, ambitious and transformative research that will lead to significant advancement in Computational and Data-Enabled Science and Engineering. The emphasis will be on mathematical, statistical, computational, and algorithmic developments, as well as their applications in advancing modern cyberinfrastructure and scientific discovery.