



# American Recovery and Reinvestment Act of 2009

<http://www.recovery.gov/>

Overview of the Recovery Act

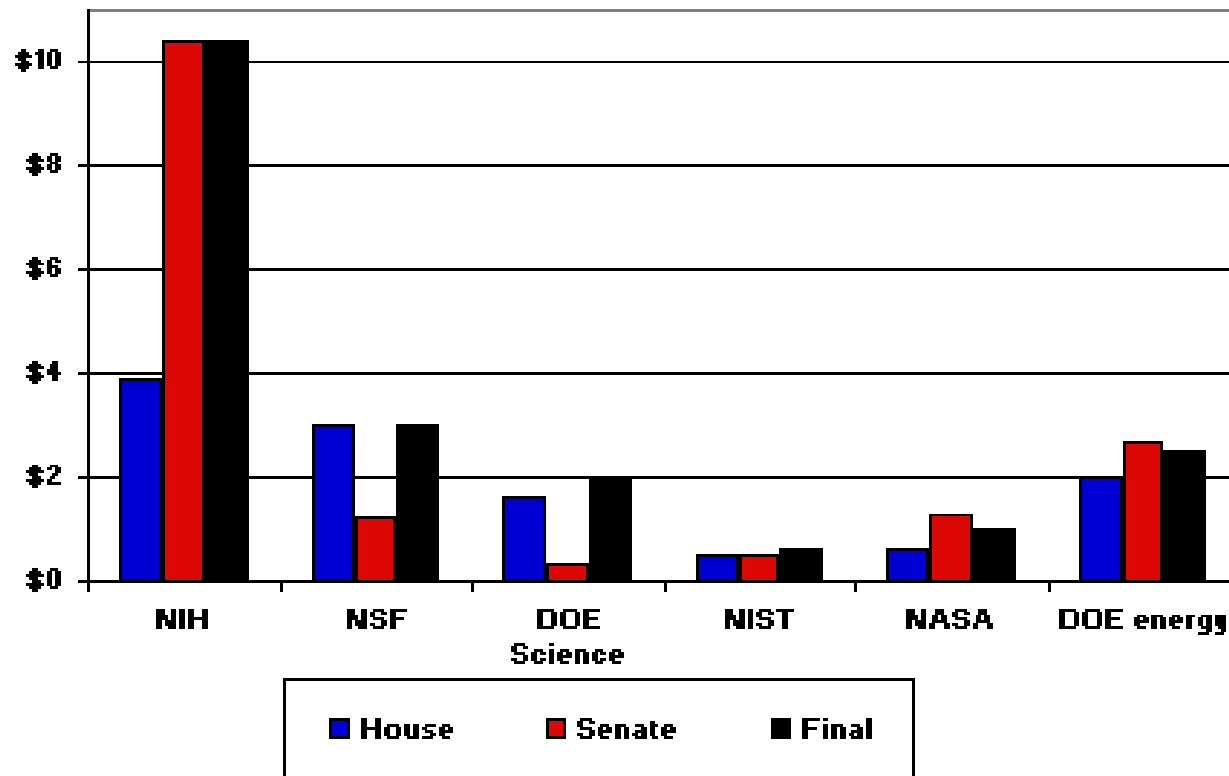
<http://www.hhs.gov/recovery/overview/index.html>



# Overview

- This presentation reviews some of the current information from funding agencies related to the American Recovery and Reinvestment Act of 2009 that may be relevant to faculty of the UNLV College of Sciences

## 2009 Supplemental Recovery Funding for R&D (House, Senate, and Final bills) (budget authority in billions of dollars)



Source: AAAS analysis of R&D in House, Senate, and Final stimulus appropriations bills (HR 1). FEB. '09 © 2009 AAAS





# NSF - Transformative Research

- The National Science Board (Board) unanimously approved a motion by National Science Foundation (NSF) Director Arden L. Bement, Jr. to enhance support of transformative research at the NSF.
- Additionally, NSF Director proposed -- and the Board adopted -- a change to the intellectual merit review criterion to specifically include evaluation of proposals for potentially transformative concepts.



NSF - The term Transformative Research is being used to describe...

- Transformative research involves **ideas**, **discoveries**, or **tools** that radically change our understanding of an important existing scientific or engineering concept or educational practice or leads to the creation of a **new paradigm or field** of science, engineering, or education. Such research **challenges current understanding** or provides **pathways to new frontiers** (From NSF).

# NSF

- “sticking to NSF’S mission,” Arden L. Bement, Jr., Director, NSF
- Will likely use stimulus \$ to fund previously submitted and highly rated applications
- EAGER grants
- RAPID grants

# NSF – 2 new foundation wide mechanisms

- Grants for Rapid Response Research
- Early-concepts grants for Exploratory Research
- Replace existing Small Grants for Exploratory Research as of 1/5/2009
- Must contact cognizant program officer prior to submission

# NSF - Graduate Research Fellowship Program

- New fellowships are expected to be announced by the end of March per normal schedule. We anticipate a very successful year but final numbers are still uncertain.
- New and returning fellows will be able to declare 09-10 tenure intentions during the month of April. We may open the module up a bit earlier this year but we will close the module on May 1.
- [grfp@nsf.gov](mailto:grfp@nsf.gov)



# NSF FY 2009 Budget Highlights

- Cross-Foundation Investments
- Support for Research Grants
- New Faculty & Young Investigators
- Graduate Research Fellowships
- Science & Technology Centers
- Cybersecurity
- International Science & Engineering
- Oceans Research



# FY 2009 Budget Highlights (Cont'd)

- Polar Research & Logistics
- Major Research Equipment & Facilities Construction (MREFC)
- Enriching the Education of STEM Teachers
- Promoting Learning through Research and Evaluation
- Broadening Participation
- Interagency R&D Priorities
- Stewardship

# NSF

- **Updated definition of co-PI.** NSF has modified its definition to explicitly state that "NSF does not infer any distinction in scientific stature among multiple PIs, whether referred to as PI or co-PI." The PI and co-PIs are equally responsible for the conduct of the project and submission of the requisite project reports.
- [http://www.nsf.gov/pubs/policydocs/pappguide/nsf09\\_1/gpg\\_index.jsp](http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_1/gpg_index.jsp).

# HHS - Recovery Programs

- \$59 billion of ARRA funds are being invested in improving health and human services.
- **Scientific Research & Facilities:** Construction of new research and educational facilities & groundbreaking scientific research that will improve the nation's health.
- **Health IT:** Funding to modernize the health care system by catalyzing the adoption of health information technology by 2014.
- Over the upcoming months, new information on the allocation of funds will be posted on this Web site as it becomes available.
- Modified from  
<http://www.hhs.gov/recovery/programs/index.html>

# NIH Funding

- ARRA provides \$10.4 billion, all available for two years—through September 2010. We expect to spend as much as possible in FY 2009.
- \$8.2 billion in support of scientific research priorities
  - \$7.4 billion is transferred to the Institutes and Centers and Common Fund (CF), based on a percentage-based formula
  - \$800 million to the Office of the Director (OD) (not including CF)  
(For example, support for Challenge Grants)
  - To support additional scientific research-related activities that also align with the overall purposes of the Act
- Modified from  
[http://www.nih.gov/about/director/02252009statement\\_arra.htm](http://www.nih.gov/about/director/02252009statement_arra.htm)



# NIH Challenge Grants in Health and Science Research

- at least \$200 million in FYs 2009—2010
- scientific and health research in biomedical and behavioral research that would benefit from significant 2-year jumpstart funds
- [http://grants.nih.gov/grants/funding/challenge\\_award/](http://grants.nih.gov/grants/funding/challenge_award/)

# NIH Funding

- \$1 billion to support Extramural Construction, Repairs, and Alterations
  - Allocated to the National Center for Research Resources (NCRR) in support of all NIH funded research institutions
- \$300 million Shared Instrumentation and other capital equipment
  - Allocated to NCRR to support all NIH activities
- \$500 million for NIH buildings and facilities
  - To fund high priority repair, construction and improvement projects on NIH campuses that also align with the overall purpose of the Act
- \$400 million for Comparative Effectiveness Research (CER)
- Modified from [http://www.nih.gov/about/director/02252009statement\\_arra.htm](http://www.nih.gov/about/director/02252009statement_arra.htm)

# NIH Funding

- Many types of funding mechanisms will be supported, but, in general, NIH will focus scientific activities in several areas:
- Recently peer reviewed, highly meritorious R01 and similar mechanisms capable of making significant advances with a two-year grant. NIH will also fund new R01 applications that have a reasonable expectation of making progress in a two-year grant.
- Targeted supplements to current grants. For example, we may competitively expand the scope of current research awards or supplement an existing award with additional support for infrastructure (e.g., equipment) that will be used in the two-year availability of these funds.
- New types of activities that fit into the structure of the Recovery Act. NIH will also use other funding mechanisms, as appropriate.

# NIH

- **Construction/Renovation**
- **RFA-RR-09-007** Recovery Act Limited Competition: Core Facility Renovation, Repair, and Improvement
- **RFA-RR-09-008** Recovery Act Limited Competition: Extramural Research Facilities Improvement Program (C06)NCRRO3/05/2009Multiple - See Announcement
- 
- **Instrumentation**
- **PAR-09-118** Recovery Act Limited Competition: High-End Instrumentation Grant Program (S10)NCRRO3/05/200905/06/2009
- This page was last reviewed on February 26, 2009



# DOE / NASA / NOAA

- The final bill provides \$3.5 - 5 billion (?) for energy R&D at the Department of Energy (DOE) and would fund climate change-related projects in the National Aeronautics and Space Administration (NASA) and the National Oceanic and Atmospheric Administration (NOAA).

# NSF / NASA / NOAA

- **Global Climate Change Research:** Nearly \$2 billion, \$262 million above 2008, to study global climate change, one of the greatest challenges facing our country. This includes:
- **NASA:** \$1.3 billion, including over \$150 million to fund Earth science missions and to measure climate change – such as measuring Earth’s radiation or changes in polar ice, as recommended by the National Academy of Sciences.
- **NOAA:** \$394 million to improve computer models, install climate sensors on satellites and improve the accessibility of climate data.
- **National Science Foundation:** An estimated \$230 million to research the impacts of human activities on the climate and to study carbon cycles, land use, and impacts on ecosystems.
- From <http://appropriations.house.gov/pdf/CJSFY0902-23-09.pdf>



# grants.gov

- Grants.gov is a central storehouse for information on over 1,000 grant programs and provides access to approximately \$500 billion in annual awards.



# UNLV Resources

- VPR's office
  - Grant writers
  - Review of initial ideas
  - Collaboration with UNR (with Provost)