

## Comparison of Higher Education and Research Provisions in the House and Senate Economic Stimulus and Recovery Bills H.R. 1 and S. 1

| Program or Provision                       | House<br>Approved 244-188 on 1/27  | Senate<br>Approved by Appropriations and<br>Finance Committees on 1/27   | Revised Senate<br>Reflects Nelson/Collins and Other<br>Amendments as of 2/9 |
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| <b>Pell Grant</b>                          | <ul style="list-style-type: none"> <li>• Increases Pell Grant maximum award from \$4,731(FY08) to \$5,350 in FY09 and FY10</li> </ul> <p>(The FY08 number includes a \$490 increase from mandatory spending; the FY09 number assumes an increase of \$119 in the FY09 omnibus appropriations bill)</p> <ul style="list-style-type: none"> <li>• Pays off current discretionary <u>and</u> mandatory spending shortfalls</li> <li>• Total amount of funding \$15.6 billion</li> </ul> | <ul style="list-style-type: none"> <li>• Increases Pell Grant maximum award from \$4,731(FY08) to \$5,131 in FY09 and FY10</li> </ul> <p>(The FY08 number includes a \$490 increase from mandatory spending; the FY09 number assumes an increase of \$119 in the FY09 omnibus appropriations bill)</p> <ul style="list-style-type: none"> <li>• Pays off current discretionary spending shortfall</li> <li>• Total amount of funding \$13.9 billion</li> </ul> | <ul style="list-style-type: none"> <li>• No change</li> </ul>               |
| <b>Federal Work-Study</b>                  | <ul style="list-style-type: none"> <li>• Provides \$490 million in additional funding</li> </ul>   | <ul style="list-style-type: none"> <li>• No comparable provision</li> </ul>  | <ul style="list-style-type: none"> <li>• No change</li> </ul>               |
| <b>Unsubsidized Stafford Student Loans</b> | <ul style="list-style-type: none"> <li>• Increases undergraduate and graduate annual loan limits by \$2,000</li> </ul>   | <ul style="list-style-type: none"> <li>• No comparable provisions</li> </ul>   | <ul style="list-style-type: none"> <li>• No change</li> </ul>               |

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| <b>Unsubsidized Stafford Student Loans</b><br><i>cont'd)</i>         | <ul style="list-style-type: none"> <li>Increases undergraduate and graduate aggregate loan limits by \$8,000</li> <li>Effective for loans first disbursed on or after January 1, 2009.</li> </ul>  |  |  |
| <b>Perkins Loans</b>   | <ul style="list-style-type: none"> <li>No comparable provision</li> </ul>  | <ul style="list-style-type: none"> <li>Provides \$61 million for Perkins Loan Capital Contributions</li> </ul>   | <ul style="list-style-type: none"> <li>No change</li> </ul>  |
| <b>American Opportunity Tax Credit</b>                               | <ul style="list-style-type: none"> <li>Renames the HOPE tax credit</li> <li>Increases credit from \$1,800 to \$2,500</li> <li>Makes credit 40 percent refundable</li> <li>Expands eligibility from two to four years</li> <li>Expands eligible expenses to include course materials and textbooks</li> </ul> | <ul style="list-style-type: none"> <li>Renames the HOPE tax credit</li> <li>Increases credit from \$1,800 to \$2,500</li> <li>Makes credit 30 percent refundable</li> <li>Expands eligibility from two to four years</li> <li>Expands eligible expenses to include course materials and textbooks</li> </ul>   | <ul style="list-style-type: none"> <li>No change</li> </ul>  |
| <b>Higher Education Modernization, Renovation, and Repair Grants</b> | <ul style="list-style-type: none"> <li>Creates new \$6 billion grant program for modernization, renovation, and repair of academic facilities that are used for instruction, research, or student housing</li> </ul>   | <ul style="list-style-type: none"> <li>Creates new \$3.5 billion grant program for modernization, renovation, and repair of academic facilities that are used for instruction, research, or student housing</li> <li>Funds may also be used for leasing, purchasing or upgrading equipment, designed to strengthen and support academic and</li> </ul> | <ul style="list-style-type: none"> <li>\$0 – Eliminates \$3.5 billion in grant program for modernization, renovation, and repair of academic facilities that are used for instruction, research, or student housing</li> </ul> |

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| <p><b>Higher Education Modernization, Renovation, and Repair Grants</b><br/>(cont'd)</p> | <ul style="list-style-type: none"> <li>• Program funding would be distributed by formula to state higher education agencies based on the proportion of full-time equivalent (FTE) undergraduates in each state relative to the total number of FTE undergraduates nationally</li> <li>• States would award grants to institutions and would be required to give priority to minority-serving institutions and institutions affected by natural disasters, as well as to projects to improve energy efficiency</li> <li>• Institutions receiving grants would be required to use at least 25 percent of the funds for projects that meet “green” standards, such as LEED or Energy Star</li> </ul> | <p>technical skill achievement</p> <ul style="list-style-type: none"> <li>• Program funding would be distributed by formula to state higher education agencies based on the proportion of full-time equivalent (FTE) undergraduates in each state relative to the total number of FTE undergraduates nationally</li> <li>• States would award grants to institutions and would be required to give priority to minority-serving institutions and institutions affected by natural disasters, as well as to projects to improve energy efficiency</li> <li>• States would be required to allocate to community colleges no less than the percentage of FTE students attending community colleges relative to the total number of FTE undergraduates attending public institutions in each state</li> </ul> |   |
| <p><b>National Institutes of Health</b></p>  | <ul style="list-style-type: none"> <li>• \$3.5 billion in total new funding</li> <li>• \$1.5 billion for biomedical research to study diseases such as Alzheimer’s, Parkinson’s, cancer, and heart disease</li> </ul>   | <ul style="list-style-type: none"> <li>• \$3.5 billion in total new funding</li> <li>• \$2.7 billion for research, with particular priority on short-term new grants that focus on specific scientific challenges; new research that expands the scope of ongoing projects; research on public health</li> </ul>  | <ul style="list-style-type: none"> <li>• \$10 billion in total new funding</li> <li>• \$9.2 billion for research, with particular priority on short-term new grants that focus on specific scientific challenges; new research that expands the scope of ongoing projects; research on public health</li> </ul> |

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| <p><b>National Institutes of Health</b><br/><i>(cont'd)</i></p> | <ul style="list-style-type: none"> <li>• \$1.5 billion in competitively awarded funds to renovate university research facilities and help them compete for biomedical research grants</li> <li>• \$500 million to implement the repair and improvement strategic plan developed by the NIH for its campuses</li> </ul>  | <p>priorities such as influenza, tuberculosis and malaria; and stem cell research</p> <ul style="list-style-type: none"> <li>• \$300 million for the National Center for Research Resources for shared instrumentation and capital research equipment</li> <li>• \$500 million for constructing, improving and repairing NIH buildings and facilities</li> </ul>   | <p>priorities such as influenza, tuberculosis and malaria; and stem cell research</p> <ul style="list-style-type: none"> <li>• No change</li> <li>• No change</li> </ul>   |
| <p><b>National Science Foundation</b></p>                       | <ul style="list-style-type: none"> <li>• \$3 billion in new funding</li> <li>• \$2.5 billion for Research and Related Activities</li> <li>• \$300 million for Major Research Instrumentation – the funding provided in the recovery bill will address key recommendations in the 2006 National Academies report, “Advanced Research Instrumentation Facilities” to expand the MRI program to include mid-scale instrumentation whose capital costs are no greater than \$2 million</li> </ul> | <ul style="list-style-type: none"> <li>• \$1.4 billion in new funding</li> <li>• \$1.2 billion for Research and Related Activities, to be used across all research disciplines. Within that total: <ul style="list-style-type: none"> <li>• \$200 million for Major Research Instrumentation</li> <li>• NSF is encouraged to renovate and maintain existing NSF facilities, including the University-National Oceanographic Laboratory System vessels and associated property</li> <li>• \$50 million to support advancements in supercomputer technology</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• \$1.2 billion in new funding</li> <li>• \$1.0 billion for Research and Related Activities, to be used across all research disciplines. Within that total: <ul style="list-style-type: none"> <li>• No change</li> <li>• No change</li> <li>• No change</li> </ul> </li> </ul> |

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| <p><b>National Science Foundation</b><br/><i>(cont'd)</i></p> | <ul style="list-style-type: none"> <li>• \$200 million for repair and modernization of academic research facilities</li> <li>• \$100 million for Education and Human Resources</li> <li>• \$60 million for the Robert Noyce Teacher Scholarship Program, a program that encourages STEM graduates and professionals to become K-12 mathematics and science teachers</li> <li>• \$40 million for the Math and Science Partnership, a program that supports innovative partnerships to improve K-12 student achievement in mathematics and science</li> <li>• \$400 million for Major Research Equipment and Facilities Construction – funds will be used to accelerate the construction and development of major research facilities that provide unique capabilities at the cutting edge of science. Funds will be used for previously approved investments and those nearing their completed design reviews.</li> </ul> | <ul style="list-style-type: none"> <li>• \$50 million for Education and Human Resources to support and improve science, technology, engineering, and mathematics [STEM] education opportunities.</li> <li>• \$15 million for professional master's science programs</li> <li>• \$150 million for Major Research Equipment and Facilities Construction that provide unique capabilities at the frontiers of science and engineering</li> </ul> | <ul style="list-style-type: none"> <li>• No change</li> <li>• No change</li> <li>• No change</li> </ul> |
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| <p><b>NASA</b></p>                                   | <ul style="list-style-type: none"> <li>• \$600 million in new funding</li> <li>• (Science) \$400 million for climate change research, including Earth science research recommended by the National Academies, satellite sensors that measure solar radiation critical to understanding climate change, and a thermal infrared sensor to the Landsat Continuing Mapper necessary for water management, particularly in the western states</li> <li>• (Aeronautics) \$150 million for research, development, and demonstration to improve aviation safety and Next Generation air traffic control (NextGen)</li> <li>• (Cross Agency Programs) \$50 million to repair NASA centers damaged by hurricanes and floods last year</li> </ul> | <ul style="list-style-type: none"> <li>• \$1.5 billion in new funding</li> <li>• (Science) \$500 million for NASA science, with funding recommended for critical Earth science missions to provide critical data about the Earth's resources and climate, including melting ice and greenhouse gases in the atmosphere</li> <li>• (Aeronautics) \$250 million for aeronautics, with funding recommended for research and testing of environmentally responsible aircraft to reduce emissions and pollutants from aircraft</li> <li>• (Cross Agency Programs) \$250 million for repair and upgrade of NASA facilities</li> <li>• (Exploration) \$500 million for exploration, with funding recommended for speeding development of the next U.S. space launch vehicle</li> </ul> | <ul style="list-style-type: none"> <li>• \$1.3 billion in new funding</li> <li>• (Science) \$450 million for NASA science, with funding recommended for critical Earth science missions to provide critical data about the Earth's resources and climate, including melting ice and greenhouse gases in the atmosphere</li> <li>• \$200 million for aeronautics</li> <li>• \$200 million for cross-agency programs</li> <li>• \$450 million for Exploration</li> </ul> |
| <p><b>Department of Energy Office of Science</b></p> | <ul style="list-style-type: none"> <li>• \$1.6 billion for basic research in the physical sciences including high-energy physics, nuclear physics, and fusion</li> </ul>   | <ul style="list-style-type: none"> <li>• \$330 million for laboratory infrastructure and construction</li> </ul>  | <ul style="list-style-type: none"> <li>• No change</li> </ul>  |

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| <p><b>Department of Energy<br/>Office of Science</b><br/><i>(cont'd)</i></p> | <p>energy sciences, and improvements to DOE laboratories and scientific facilities</p> <ul style="list-style-type: none"> <li>• Within this amount, \$100 million is specifically designated to be used for advanced scientific computing</li> </ul>  | <ul style="list-style-type: none"> <li>• \$100 million for advanced computing development</li> </ul>  | <ul style="list-style-type: none"> <li>• \$0 – Eliminates \$100 million for advanced computing development</li> </ul>  |
| <p><b>Department of Energy<br/>Advanced Research<br/>Projects Agency</b></p> | <ul style="list-style-type: none"> <li>• \$400 million is provided for ARPA-E to support high-risk, high-payoff research into energy sources and energy efficiency</li> </ul> <p><u>NOTE:</u> Although the House report lists ARPA-E as part of the DOE Office of Science, the agency is authorized as a separate entity.</p> | <ul style="list-style-type: none"> <li>• No comparable provision in the Senate</li> </ul>   | <ul style="list-style-type: none"> <li>• No change</li> </ul>  |
| <p><b>National Institute of Science<br/>and Technology</b></p>               | <ul style="list-style-type: none"> <li>• \$300 million for competitive construction grants for research science buildings at colleges, universities, and other research organizations</li> </ul>  | <ul style="list-style-type: none"> <li>• \$218 million for NIST to increase competitive grants for external partners to perform research and measurements in support of NIST's mission</li> </ul> <p>Included, but not for universities:</p> <ul style="list-style-type: none"> <li>• \$302 million for improvements and renovations to existing NIST facilities</li> <li>• \$55 million for construction of new critical laboratories at existing NIST facilities</li> </ul> | <ul style="list-style-type: none"> <li>• \$118 million for NIST to increase competitive grants for external partners to perform research and measurements in support of NIST's mission</li> </ul> <p>No change</p> |

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| <p><b>SPENDING PREFERENCE REPORT LANGUAGE</b></p> | <p><b>Preference for Quick-Start Activities.</b> For infrastructure funding, preference is given to activities that can be started and completed expeditiously, including a goal of using at least 50 percent of the funds for activities that can be initiated not later than 120 days after the date of the enactment of this Act. Recipients shall also use grant funds in a manner that maximizes job creation and economic benefit.</p> <p><b>Timely Award of Grants</b></p> <p>(a) <u>Formula Grants</u>- Formula grants using funds made available in this Act shall be awarded not later than 30 days after the date of the enactment of this Act (or, in the case of appropriations not available upon enactment, not later than 30 days after the appropriation becomes available for obligation), unless expressly provided otherwise in this Act.</p> <p>(b) <u>Competitive Grants</u>- Competitive grants using funds made available in this Act shall be awarded not later than 90 days after the date of the enactment of this Act (or, in the case of appropriations not available upon enactment, not later than 90 days after the appropriation becomes available for obligation), unless expressly provided otherwise in</p> | <p>No comparable provisions.</p> | <p>No change</p> |
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|  | <p>this Act.</p> <p>(c) <u>Additional Period for New Programs</u>- The time limits specified in subsections (a) and (b) may each be extended by up to 30 days in the case of grants for which funding was not provided in fiscal year 2008.</p> |  |  |
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