



**Side-by-Side Comparison of U.S. House of Representatives Major Innovation and Competitiveness
Legislative Proposals as of March 2006**

Key Issue	Agency	Innovation & Competitiveness Act of 2006, H.R. 4845	Rep. Gordon's House Bills H.R. 4434, H.R. 4435 and H.R. 4596	American Competitiveness Initiative (ACI) President Bush 2/06
Research Funding Research Funding	National Science Foundation	No provisions.	H.R. 4596 tracks B-1 recommendation of Gathering Storm Report (GSR) by providing 10% increases per year for 5 years , based on FY 2006 levels, for the physical sciences, engineering, mathematics, and information sciences at NSF, DOE, NASA, and NIST, and all basic research (6.1) at DOD. FY 2007, \$1785 million (\$715 million above FY 2006 total).	Doubles research funding over 10 years (~7%/yr) [\$6.02 B (7.8% increase) FY 2007; \$11.16 B FY 2016]
Research Funding Research Funding	Department of Energy		H.R. 4435 tracks B-5 recommendation of GSR , which proposes creation of an Advanced Research Projects Agency — Energy or “ARPA-E” at the U.S. Dept. of Energy beginning in FY 2007, \$300 million.	Doubles research funding at DOE Office of Science over 10 years (~7%/yr) [\$4.10 B (14% increase) FY 2007; \$7.19 B FY 2016]
Research Funding Research Funding Research Funding Research Funding Research Funding	National Institute of Standards and Technology (Department of Commerce)	No provisions.		Doubles “core” (research and construction) funding over 10 years (~7%/yr) [\$540 M (5.8% decrease) FY 2007; \$1.14 B FY 2016]
Research Funding Research Funding	All Federal Research Agencies		H.R. 4596 follows GSR recommendation that not less than 8% of funds authorized under the bill for research be available for high-risk research	\$5.9 B for basic & applied research in FY '07 = ~ 8% increase in FY 2007 over FY 2006 budget request.



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Education	National Science Foundation		H.R. 4434 tracks A-1 recommend. of GSR calling for 10,000 4-year (up to \$20K per year) scholarships. Establishes program at NSF; requires grantees to set up undergraduate educational program and provide scholarships. FY 2007, \$85 million.	Teacher Recruitment and Retention	
Education				Proposes an Adjunct Teacher Corps to encourage up to 30,000 math and science professionals to become adjunct high school teachers	
Education	Department of Education		H.R. 4434 tracks A-2a recommend. of GSR directing NSF to expand existing Teacher Institutes for the 21st Century program to include 1 to 2 week summer teacher institutes. FY 2007, \$37 million.	Improving the Skills of the Existing Teacher Workforce	
Education			Establishes Innovation Mathematics and Science Honors Scholarship Program for U.S. citizen students involved in baccalaureate and advanced degrees in physical, life, or computer sciences, mathematics, and engineering through the U.S. Dept. of Education.	Expands the Advanced Placement/International Baccalaureate program to 70,000 additional teachers in math and science courses.	
Education				H.R. 4434 tracks A-2b recommendation of GSR by establishing funding program for 2-year, part time master's degree programs for science & math teachers. FY 2007, \$200 million — since initial NAS estimate for this program, cost has dropped to \$46 million.	Proposes a \$125 million Math Now for Elementary Students program to enable elementary school teacher to learn proven methods and practices to provide students with a solid foundation for more rigorous coursework in middle and high school
Education				H.R. 4434 also tracks A-2c recommend. of GSR by expanding existing Teacher Professional Continuum program at NSF. FY 2007, \$92 million.	Proposes a \$125 million Math Now for Middle School Students program to promote research-based systematic instruction aimed at improving proficiency in algebra for middle-school students
Education				H.R. 4596 tracks C-2 recommendation of GSR establishing 5,000 new graduate fellowships each year in STEM areas of national need, administered by NSF. FY 2007, \$225 million.	Encouraging U.S. Students to Study in STEM Fields
Education	Department of Energy		H.R. 4434 tracks A-2d recommend. of GSR by requiring NSF to establish a national panel to identify and collect materials demonstrated to be effective and, in consultation with DED, to develop ways to disseminate effective materials. It also increases funding authorized for NSF's long-standing Instructional Materials Development activity. FY 2007, \$30 million (+\$5 million above FY 2006 actual).	Through increased funding of grants at NSF, DOE-Office of Science, and NIST, the American Competitiveness Initiative is expected to provide support for 10,000 additional scientists, students, post-doctoral fellows and technicians in FY '07	
Education			Creates Mathematics and Science Incentive Program wherein the Dept. of Education assumes loan obligations for individuals wishing to go into science, technology, engineering or mathematics teaching at an elementary or secondary school in a "high need" local educational agency, or for those who are S&T professionals who wish to teach — so long a 5 consecutive years of service are completed.	H.R. 4434 tracks GSR recommend. A-2a and directs DOE to expand existing Laboratory Science Teacher Professional Development program (longer than standard teacher institutes with continued interactions during school year). FY 2007, \$3 million.	
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Education	NSF, NIH, DOE, DOD, NASA				
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Education			H.R. 4596 tracks GSR B-2 recommendation allocating the funding among the 5 agencies in proportion to their current funding for the early career program (NSF, 82 grants; NIH, 48; DOE, 36; DOD, 24; and NASA, 10). FY 2007 = \$20 million.		



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Education Education Education Education Education Education Education Education	White House Office of Science & Technology Policy Science Foundation	No Provisions.	<p>H.R. 4596 tracks B-3 recommendation of GSR, establishing a national coordination office within OSTP and allocating 2/3 of the funding for instrumentation and facilities awards thru NSF and 1/3 thru DOE. FY 2007, \$500 million.</p> <p>H.R. 4435 follows recommendation B-4 of GSR by establishing an Innovation Award (Medal) Program through the White House Office of Science & Technology Policy (OSTP).</p>	<p>Proposes a Competitiveness Grants Program to provide supplemental grants for low-income college freshmen and sophomores who completed a rigorous high school curriculum and who maintain at least a 3.0 GPA in college, and juniors and seniors who major in math, science and critical foreign languages (Department of Education).</p> <p>NOTE: This comparison does not address existing programs at NSF which are not included in the new ACI.</p> <p>AIC contains language suggesting "Leveraging the involvement of the Business/Industry Community in Improving STEM Education."</p>
Immigration Immigration Tort Reform Tort Reform Tort Reform Tort Reform Tort Reform	Department of Justice	<p>No Provisions.</p> <p><i>Lawsuit Abuse Reduction Act of 2006</i></p> <p>Proposes reforms of legal system by reducing burden of frivolous lawsuits on Small Businesses, including disbarment penalties for offending attorneys</p>	No Provisions.	<p>"Increases our ability to compete for and retain the best and brightest high-skilled workers from around the world by supporting comprehensive immigration reform that meets the needs of a growing economy, allows honest workers to provide for their families while respecting the law, and enhances homeland security by relieving pressure on the borders."</p>

