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 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 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**	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. 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 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. 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. 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. H.R. 4434 also tracks A-2c recommend. of ***GSR*** by expanding existing Teacher Professional Continuum program at NSF. FY 2007, $92 million. 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. 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). 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. 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.	**Teacher Recruitment and Retention** Proposes an **Adjunct Teacher Corps** to encourage up to 30,000 math and science professionals to become adjunct high school teachers **Improving the Skills of the Existing Teacher Workforce** Expands the **Advanced Placement/International Baccalaureate program** to 70,000 additional teachers in math and science courses. 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 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 **Encouraging U.S. Students to Study in STEM Fields** 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	**Department of Education**			
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Education	**Department of Energy**			
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Education	**NSF, NIH, DOE, DOD, NASA**			

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Education Education Education Education Education Education Education Education Education Education	**White House Office of Science & Technology Policy Science Foundation**	No Provisions.	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. 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).	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). **NOTE: This comparison *does not* address existing programs at NSF which are not included in the new ACI.** **AIC contains language suggesting "Leveraging the involvement of the Business/Industry Community in Improving STEM Education."**
Immigration Immigration Tort Reform Tort Reform Tort Reform Tort Reform Tort Reform Tort Reform	**Department of Justice**	No Provisions. ***Lawsuit Abuse Reduction Act of 2006*** Proposes reforms of legal system by reducing burden of frivolous lawsuits on Small Businesses, including disbarment penalties for offending attorneys	No Provisions.	"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."

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Taxes **Taxes** **Taxes** **Taxes**	**Internal Revenue Service (IRS)** **(Department of the Treasury)**	Makes the R&E Tax Credit permanent. Forbids state taxation of many interstate business activities conducted by non-resident small businesses, including intangibles.	No provisions.	**$4.6 B for R&E Tax credits in FY '07** **$86 B for R&E Tax credits over next ten years** Establishes **Career Advancement Accounts** for individuals for training and other employment services.
Other Issues	**Department of Health & Human Services** **Federal Communications Commission *et al***	**Increasing Access and Efficiency of Health Care** ***Health Care Choice Act of 2006*** creates a variety of programs to incentivize improved use of technology in U.S. health care system. Urges collaborative state regulation of health insurance industry. Permits multi-state risk retention groups to allow insurance to be sold in multiple states but regulated in a single State. ***Health Information Technology Promotion Act of 2006*** *promotes more effective marketplace, greater competition, greater systems analysis and information sharing nationwide.* Calls for "seamless mobility" so that communications and information flow across devices and networks can grow without government intermeddling.	No provisions.	No provisions.