

## America COMPETES Act

*Analysis of Enacted Programs<sup>1</sup>: January 19, 2010  
MIT Washington, DC Office*

Agency	Section of Act	Summary	Status <sup>2</sup>	Source	Relevant Links	Type
OSTP	1001	President to convene a Natl Sci and Tech Summit and report on results of summit to examine US STEM enterprises	Implemented		<a href="http://www.ornl.gov/sci/natlscitechsummit/">http://www.ornl.gov/sci/natlscitechsummit/</a>	Report
OSTP	1002	OSTP and NAS study to identify and review methods to mitigate new forms of risk that affect businesses' abilities to innovate	Not found.	OSTP: On hold pending Congressional appropriations		Report
OSTP	1003	Amends Stevenson-Wydler Act to rename National Technology Medal the National Tech. and Innovation Medal	Implemented	15 USC Sec. 3711		Amendment
OSTP	1004	OSTP Director should encourage STEM Day at all K-8 schools involving STEM-related federal employees to interact with students	Not found	No reference to "STEM Day" or "Science, Technology, Engineering, and Mathematics Day" anywhere on OSTP website		Guidance
OSTP	1005	Report on ways government can support service science through research, education, and training	Not found	OSTP: On hold pending Congressional appropriations.		Report
OSTP	1006	Establishes President's Council on Innovation and Competitiveness, with 50 advisors recommended by NAS	Not found	OSTP: During last Administration, the National Science and Technology Committee (NSTC) was designated by Exec memorandum to fulfill this requirement. Refer to Administration's Innovation strategy for info on their priorities.		Guidance
OSTP	1007	Director to submit report to Congress on deficiencies in research infrastructure, projects of federal labs for major acquisitions in President's budget proposal, and explanation of how they remedy deficiencies	Unsure	OSTP: ARRA addressed many concerns, and NSTC's Committee on Science will address these in FY11 budget.		Report
OSTP	1008	Sense of Congress on innovation acceleration research	Unsure			Guidance
OSTP	1009	Director to develop principles to ensure open exchange of data from research conducted by a scientist employed by a federal agency, taking into account policies of peer-reviewed journals in which federal scientists may publish	Not found			Report

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NASA	2001	NASA to be a full participant in interagency efforts to promote innovation through R&D and STEM Ed, and NASA administrator to report on its plan for assessing effectiveness of NASA STEM Ed programs	Unsure	NASA: provided requested reports (2001(e) and (f)) to Congress; not publicly available		Guidance/reports.
NASA	2002	Sense of Congress that NASA Aeronautics programs should coordinate with other relevant agencies.	Unsure			Guidance
NASA	2003	NASA and NSF heads and Secretaries of Energy, Defense, and Commerce to coordinate basic research in phys. sciences, technology, engineering, and math	Unsure			Guidance
NASA	2004	Implement program to address aging workforce in aerospace	Unsure			Program
NASA	2005	Sense of Congress to utilize existing Undergraduate Research Program to support basic research projects on subjects of relevance to NASA	Unsure			Program
NASA	2006	Use of International Space Station National Laboratory to promote math and science education and competitiveness.	Not found	Education project not listed on NASA website; no plan found (could be in progress?)	<a href="http://www.nasa.gov/offices/education/programs/descriptions/Students-rd.html">http://www.nasa.gov/offices/education/programs/descriptions/Students-rd.html</a>	Program
NIST	3001	Authorizes appropriations for laboratory activities FY '08 = \$502.1 FY '09 = \$541.9 FY '10 = \$584.8	Implemented FY '08 = \$440.5 FY '09 = \$692.0 (includes \$220 ARRA)	CRS Report		Appropriation
NIST	3001	Authorizes appropriations for construction and maintenance FY '08 = \$150.9 FY '09 = \$86.4 FY '10 = \$49.7	Implemented FY '08 = \$160.5 FY '09 = \$532 (includes \$360 ARRA)	CRS Report		Appropriation
NIST	3001	Authorizes appropriations for TIP FY '08 = \$100.0 FY '09 = \$131.5 FY '10 = \$140.5	Implemented FY '08 = \$65.2 FY '09 = \$65.0	CRS Report		Appropriation
NIST	3001	Authorizes appropriations for MEP FY '08 = \$110.0 FY '09 = \$122.0 FY '10 = \$131.8	Implemented FY '08 = \$89.6 FY '09 = \$110.0	CRS Report		Appropriation
NIST	3002	Amends the Stevenson-Wydler Technology Innovation Act of 1980 to repeal provisions regarding the establishment of the Technology Administration within the Department of Commerce.	Implemented			Amendment
NIST	3003	Establishes within NIST a Manufacturing Extension Partnership (MEP) Advisory Board. Provides guidance on evaluation of MEP performance.	Implemented		<a href="http://www.mep.nist.gov/about-mep/mep-advisory-board.htm">http://www.mep.nist.gov/about-mep/mep-advisory-board.htm</a>	Guidance

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NIST	3003	Requires the Director to establish within the MEP program a program to award competitive grants among the Centers.	Implemented			Grants
NIST	3004	Requires the NIST Director, concurrent with submission of the President's budget, to transmit a three-year programmatic planning report for NIST.	Implemented		<a href="http://www.nist.gov/director/reports/Final_NIST_3y.pdf">http://www.nist.gov/director/reports/Final_NIST_3y.pdf</a>	Report
NIST	3005	Requires annual reports to the Secretary and Congress be submitted by the Visiting Committee on Advanced Technology not later than 30 days after submission of the President's budget request.	Implemented		<a href="http://www.nist.gov/director/vcat/">http://www.nist.gov/director/vcat/</a>	Report
NIST	3006	Amends the NIST Act to adjust meeting frequency for the Visiting Committee on Advanced Technology.	Implemented		<a href="http://www.nist.gov/director/vcat/">http://www.nist.gov/director/vcat/</a>	Guidance
NIST	3007	Requires the Director to establish a manufacturing research pilot grants program.	Unsure	May correspond with existing fellowships		Program
NIST	3008	Requires the Director to establish fellowships focused on manufacturing sciences.	Unsure	May correspond with existing fellowship		Program
NIST	3009	Allows director to annually procure services of up to 200 experts to help with short-term projects	Implemented	GAO website, report on NIST's use of expert services per COMPETES	<a href="http://democrats.science.house.gov/Media/file/Reports/GAO_America_COMPETE_Act_8.09.pdf">http://democrats.science.house.gov/Media/file/Reports/GAO_America_COMPETE_Act_8.09.pdf</a>	Guidance
NIST	3010	Amends Stevenson-Wydler Technology Innovation Act of 1980 to limit Malcolm Baldrige Awards to 18 in any year	Implemented	15 USC Sec. 3711a		Amendment
NIST	3011	Report on efforts to recruit early-career scientists and engineers at NIST and joint institutes	Implemented	NIST website	<a href="http://www.nist.gov/director/reports/Final_NIST_3y.pdf">www.nist.gov/director/reports/Final_NIST_3y.pdf</a>	Report
NIST	3012	Replaces Advanced Tech. Program (ATP) with Technology Innovation Program (TIP)	Implemented	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Program/Report
NIST	3012	Award TIP grants to small businesses and joint ventures	Implemented	NIST website	<a href="http://www.nist.gov/tip/comp_09/2009_ffo_final1_amendment.pdf">http://www.nist.gov/tip/comp_09/2009_ffo_final1_amendment.pdf</a>	Grants
NIST	3012	Annual report on TIP activities, the first of which should include best practices for programs to encourage high-risk high-reward research	Implemented	Could not locate a copy, but found many references to TIP report on NIST website		Report
NIST	3012	Establishes TIP advisory board	Implemented	NIST website	<a href="http://www.nist.gov/tip/advcomm/index.html">http://www.nist.gov/tip/advcomm/index.html</a>	Program
NIST	3013	Amends NIST act to increase funding for fellowships, allow NIST authority to enter into contracts such as grants, repeal Act of 7/21/50 relating to electrical and photometric units, and repeal the non-energy inventions program	Implemented	15 USC Sec. 278g-1 15 USC Sec. 272 15 USC Secs. 223,224 15 USC Sec. 278m		Amendment
NIST	3014	Authorizes NIST director to retain all building use and depreciation fees	Unsure			Guidance
NIST	3015	Amends NIST Act to double number of fellows per year to be included in postdoc fellowship program	Implemented	15 USC Sec. 278g-2		Amendment

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NOAA	4001	Establishes program of ocean, coastal, Great Lakes, and atmospheric R&D to focus on development of advanced technologies	Not found	Could not find any reference at NOAA website		Program
NOAA	4002	Carry out educational activities to enhance public awareness and understanding of ocean, coastal, Great Lakes, and atmospheric science and develop 4-year education plan	Unsure	Program evaluation by National Academy of Science	<a href="http://www7.nationalacademies.org/bose/NOAA_Education_Review_Homepage.html">http://www7.nationalacademies.org/bose/NOAA_Education_Review_Homepage.html</a>	Program
NOAA	4003	Requires NOAA to be full participant in any interagency effort to promote innovation and competitiveness through R&D and STEM Ed.	Unsure			Guidance
DOE	5001	Short Title				
DOE	5002	Definitions				
DOE	5003	Amends DOE Science Ed. Enhancement Act to appoint Director of STEM Ed and contract with NAS to assess STEM Ed programs	Amended; No evidence of implementation	42 USC Sec. 7381a		Amendment
DOE	5003	Establish STEM Ed Fund to award grants to states to establish public statewide schools for science and math.	Not found	DOE: GC ruled no fund necessary, no report prepared.		Grant/Report
DOE	5003	Establish experiential based learning opportunities.	Not found	Found no reference to fund or grant program on DOE website		
DOE	5003	Should establish summer internship program at National Labs	Implemented	Found at science.gov	<a href="http://www.science.gov/internships/k-12.html">http://www.science.gov/internships/k-12.html</a>	Program
DOE	5003	Establish at National Labs a program to support center for STEM at high-need public high schools	Not found	not found on DOE or national labs sites		Program
DOE	5003	Establish or expand summer institutes at the National Laboratories.	Not found	DOE: not implemented; no funds appropriated		Program
DOE	5003	Establish at National Labs a program for additional training for STEM teachers relating to DOE mission	Implemented	CRS Report: correlates to existing ACTS program through DOE	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Program
DOE	5003	Establish at National Labs a program to supply K-12 teachers web-based STEM ed resources. Authorizes \$0.5 for FY '08.	Unsure	Resources available but not sure if they existed prior to bill	<a href="http://tonto.eia.doe.gov/kids/energy.cfm?page=6">http://tonto.eia.doe.gov/kids/energy.cfm?page=6</a>	Program
DOE	5003	Establish a recruiting/mentoring program for women and minorities in STEM	Unsure	Office of Minority Impact - not necessarily the same thing?	<a href="http://diversity.doe.gov/minority/index.htm">http://diversity.doe.gov/minority/index.htm</a>	Program
DOE	5003	Awards to institutions of higher education for new/existing academic degree programs in nuclear science and hydrocarbon science	Not found	Not found anywhere on DOE website		Grants
DOE	5004	Establish a program to expand IHE's nuclear science capabilities.	Not found			Grants
DOE	5004	Establish nuclear science competitiveness grants.	Not found			Grants
DOE	5005	Expand hydrocarbon systems science program.	Not found			Grants
DOE	5005	Award hydrocarbon competitive grants.	Not found			Grants

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DOE	5006	Early career grants for research relevant to DOE's mission	Corresponds to existing programs and according to DOE, ARRA funds being used to start program	CRS Report: corresponds to existing DOE awards. DOE: no funds appropriated for new program, but ARRA meeting intent	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Grants
DOE	5007	Amends Energy Policy Act for FY2010 basic research appropriations - Office of Science. Authorizes \$5,814 for FY '10	Implemented FY 2008 = \$4,035.6 FY 2009 = \$6,357.6	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Amendment
DOE	5008	Establish multidisciplinary institutes at National Labs and a graduate fellowship program. Authorizes \$10.0 per institute	Not found	CRS Report: corresponds to existing research centers and fellowships. DOE: no appropriations; not implemented	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Grants
DOE	5009	Award Protecting America's Competitive Edge Fellowship Program.	Corresponds to existing programs	CRS Report: corresponds to existing fellowships	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	
DOE	5010	Sense of Congress that DOE should implement recommendations and conduct annual reviews for title IX compliance for 2+ DOE grant recipients	Not found			Report
DOE	5011	Program to support joint appointment of distinguished scientists at national labs and universities.	Unsure			Guidance
DOE	5012	Establishes ARPA-E. Authorizes \$300M for FY 2008	Implemented FY 2009 = \$415.0 (includes \$410 ARRA)	ARRA funds; CRS Report. DOE: no report; organization only recently created	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Program/Report
DOEd	6001	Findings				
DOEd	6002	Definitions				
DOEd	6111	Purpose				
DOEd	6112	Definitions				
DOEd	6113	Grants for educational partnerships to start programs in STEM or foreign languages that lead to degree with teacher certification. Authorizes \$151.2 from FY '08 on.	Implemented FY 2008 = \$0.98 FY 2009 = \$1.1	CRS Report, "Teachers for a competitive tomorrow"	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Grants
DOEd	6114	Grants to educational partnerships to develop master's degree programs in STEM or foreign languages for teachers or in teaching for STEM or foreign language professionals. Authorizes \$125.0 from FY '08 on.	Implemented FY 2008 = \$0.98 FY 2009 = \$1.1	CRS Report, "Teachers for a competitive tomorrow"	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Grants
DOEd	6115	General provisions	Not found	DOEd: department will contract in FY10 for delivery in FY11		Report
DOEd	6116	Authorization of Appropriations				
DOEd	6121	Purpose				
DOEd	6122	Definitions				

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DOEd	6123	Grants to increase qualified teachers in high-need schools teaching AP or IB classes and students in high-need schools taking and passing exams in AP or IB classes	Not found	Closest thing found is AP Incentive Program. DOEd: no funds appropriated not implemented	<a href="http://www.ed.gov/programs/apincent/index.html">http://www.ed.gov/programs/apincent/index.html</a>	Grants
DOEd	6131	With NAS, convene expert panel on STEM education in grades K-12	Implemented	National Academies website	<a href="http://www7.nationalacademies.org/bose/Promising%20Practices_Homepage.html">http://www7.nationalacademies.org/bose/Promising%20Practices_Homepage.html</a>	Report
DOEd	6201	Grants to implement research-based math programs, professional development for math teachers, and student mathematics progress monitoring, K-9	Not found	DOEd: no funds appropriated; not implemented		Grants
DOEd	6202	Summer learning grants to disadvantaged students for programs in STEM and problem solving	Not found	DOEd: no funds appropriated; not implemented		Grants
DOEd	6203	Grants to improve overall math performance of secondary schools through new services and activities	Not found	could not find at Dept of Ed website		Grants
DOEd	6204	Peer review of State applications	Not found			Guidance
DOEd	6301	Findings and purpose				
DOEd	6302	Definitions				
DOEd	6303	Program authorization in critical foreign languages	Not found	DOEd: no funds appropriated; not implemented		Program
DOEd	6304	Authorization of appropriations (\$28M for FY2008, such sums as necessary for future years)	Not funded			Appropriation
DOEd	6401	Alignment of secondary school graduation requirements with demands of 21st century postsecondary endeavors and support for P-16 education data systems	Unsure			Guidance
DOEd	6501	Math & Science Partnerships Bonus Grants to low-income elementary and secondary schools with most improvement in math and science	Not found	Found no reference to bonus grants on Math & Science Partnership website		Grants
DOEd	6401	Grants for states to promote alignment of content requirements for graduation with skills needed to succeed after graduation	Not found			Grants
DOEd	6401	Grants to establish or improve P-16 education data systems	Not found			Grants
DOEd	6501	Grants to 6 schools with concentration of low income students who demonstrate most improvement in math and science	Not found	no evidence of bonus grants on Mathematics & Science Partnership website or in news search		Grants
DOEd	6502	Authorization of appropriations	Not funded			Appropriation
NSF	7001	Authorization of appropriations				
NSF	7002	Appropriations for FY2008-FY2010 to the NSF for:				

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NSF	7002	Authorizes for research and related activities FY '08 = \$5,156.0 FY '09 = \$5,742.0 FY '10 = \$6,401.0	Implemented FY '08 = \$4,844.0 FY '09 = \$7,683.1	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Appropriation
NSF	7002	Authorizes for education and human resources FY '08 = \$896.0 FY '09 = \$995.0 FY '10 = \$1,104.0	Implemented FY '08 = \$765.6 FY '09 = \$945.3	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Appropriation
NSF	7002	Authorizes for major research equipment and facilities construction FY '08 = \$245.0 FY '09 = \$262.0 FY '10 = \$280.0	Implemented FY '08 = \$220.7 FY '09 = \$552.0 (incl. ARRA)	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Appropriation
NSF	7002	Authorizes for agency operations and award management FY '08 = \$285.6 FY '09 = \$309.76 FY '10 = \$329.45	Implemented FY '08 = \$281.8 FY '09 = \$294.0	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Appropriation
NSF	7002	Authorizes for the Office of the National Science Board FY '08 = \$1.05 FY '09 = \$4.19 FY '10 = \$4.34	Implemented FY '08 = \$4.0 FY '09 = \$4.0	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Appropriation
NSF	7002	Authorizes for the Office of Inspector General FY '08 = \$12.35 FY '09 = \$12.75 FY '10 = \$13.21	Implemented FY '08 = \$11.4 FY '09 = \$14.0 (incl. ARRA)	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Appropriation
NSF	7003	Reaffirmation of the merit-review process at the NSF				Guidance
NSF	7004	Sense of Congress re: the math and science partnership programs of DOE and the NSF				Guidance
NSF	7005	Curricula				Guidance
NSF	7006	Requires continuation of program of Centers for Research on Learning and Education Improvement	Implemented	NSF Funding website	<a href="http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5567">http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5567</a>	Program
NSF	7006	Amends NSF Auth. Act of 2002 to allow awarding of grants to nonprofits and their consortia to establish Centers	Amended, Action Unsure	42 USC Sec. 1862n-2		Amendment
NSF	7007	Directs National Science board to evaluate: Major Research Instrumentation Program, NSF's effort in making scientific community aware of interdisciplinary funding opportunities and process of selecting interdisciplinary proposals, effectiveness of NSF's efforts to engage undergrads in interdisciplinary research settings, and to report findings and recommend proportion of NSF funding that should go to interdisciplinary research	Implemented; 13-Aug-08	NSF website	<a href="http://www.nsf.gov/nsb/committees/cppcmte.jsp">http://www.nsf.gov/nsb/committees/cppcmte.jsp</a>	Report

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NSF	7008	Require all grant applications that include postdoc funding include description of mentoring activities under Broader Impacts criterion, and that final reports include a description of such mentoring	Implemented	NSF Grant Proposal Guide	<a href="http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_29/gpg_2.jsp#IVB">http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_29/gpg_2.jsp#IVB</a>	Guidance
NSF	7009	Require each institution applying for NSF funds for Sci & Eng research/ed include plan to provide training in ethical research to participants	Implemented	NSF Grant Proposal Guide	<a href="http://www.nsf.gov/pubs/policydocs/pappguide/nsf10_1/gpg_sigchanges.jsp">http://www.nsf.gov/pubs/policydocs/pappguide/nsf10_1/gpg_sigchanges.jsp</a>	Guidance
NSF	7010	Ensure all final reports and citations of published research funded by NSF is made available to public through NSF website	Not found	"Discoveries" usually have link to award abstracts, and can search for abstracts, but could not find final reports for all grants		Guidance
NSF	7011	If an investigator supported by NSF does not comply with Sec. 734 of NSF Grant Policy Manual, sharing research results provisions, he/she becomes ineligible for future NSF award/program	Not found	Not found in 2009 NSF Award and Administration Guide	<a href="http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_29/aag_subindex.jsp#s">http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_29/aag_subindex.jsp#s</a>	Guidance
NSF	7012	Requires director annually to evaluate NSF grants that will expire within one year and those relating to Sci & Eng Equal Opportunity Act or that provide teacher professional development; Can extend successful grants and must submit a report listing such grants	Implemented	Not found publicly, but NSF says report submitted on 2/7/08. No report listing such grants found on NSF reports page		Report
NSF	7013	NSB to evaluate impacts of cost-sharing elimination policy for grants and report results	Implemented	NSB website	<a href="http://128.150.4.107/nsb/committees/tskforce_cs.jsp">http://128.150.4.107/nsb/committees/tskforce_cs.jsp</a>	Report
NSF	7014	NSB to evaluate requirement that design work funding for major equipment/facilities come from research division instead of Major Research Equip... acct, and NSF's policies for maintenance & operation cost allocation, and report results	Implemented	NSF: report submitted on 2/8/08		Report
NSF	7014	Director to report on all K-16 ed programs supported through research & related appropriations, and submit report on awards for Research in Undergrad. Inst. Program with FY2011 budget submission	Implemented	NSF: report submitted		Report
NSF	7014	Director to submit plan for allocation of education & HR funds within 60 days of appropriations enactment	Implemented	NSF: reports submitted		Reports
NSF	7015	Amends NSF Auth. Act of 2002 to require triennial audits of NSB, maintaining record of closed meetings for 3 years, and appointment of tech/professional personnel for a limited term	Amended; No evidence of implementation	42 USC Sec. 1862n-5		Amendment
NSF	7015	Amends NSF Auth. Act of 1976 to limit Alan T. Waterman awards to no more than 3 per fiscal year	Amended; No evidence of implementation	42 USC Sec. 1881a		Amendment
NSF	7016	Requires rendering of NSB reports to President and Congress (not President for submission to Congress)	Implemented	42 USC Sec. 1863		Amendment
NSF	7017	Amends Program Fraud Civil Remedies Act of 1986 to include NSF as an authority with respect to the Act's provisions on administrative action for false claims	Implemented	31 USC Sec. 3801		Amendment



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NSF	7018	Consider the degree to which and prioritize NSF awards to make contributions in sciences that enhance competitiveness, innovation, or safety and security	Not found	Not found in NSF Grant Proposal Guide		Guidance
NSF	7019	Permits NSF to support research on innovation process and teaching of inventiveness	Unsure			Guidance
NSF	7020	Plan describing status for broadband access in EPSCoR eligible states, institutions in rural areas, and minority serving institutions	Not Found	Plan not located in NSF publications; however, ARRA grants for EPSCoR cyber connectivity improvements	<a href="http://www.nsf.gov/pubs/2009/nsf09569/nsf09569.htm">http://www.nsf.gov/pubs/2009/nsf09569/nsf09569.htm</a>	Report
NSF	7021	Pilot program for 1-year grants to individuals to improve and resubmit proposals that were turned down by NSF (through Small Grants for Exploratory Research Program) and conduct assessment of program	Report not due until 2010			Grants
NSF	7022	Expands Broader Impacts criterion to include partnerships between academia and industry to address high-importance research areas for national economic competitiveness (i.e. nanotechnology)	Implemented	NSF: report submitted on 10/6/08		Report
NSF	7023	Amends NSF Act of 1950 so NSF can receive and use funds donated for specific prize competitions for "basic research"	Implemented	42 USC Sec. 1870		Amendment
NSF	7024	Amends High-Performance Computing Act to revise requirements for Natl High-Performance Comp. Prog.	Amended	15 USC Sec. 5511		Amendment
NSF	7024	Director of OSTP to establish goals for federal computing R&D, establish Program Component Areas to implement such goals and identify Grand Challenges to address, and maintain a R&D&Deployment road map for provision of high-performance systems in all states	Unsure			Report
NSF	7024	Revises annual report requirements so reports describe Program Component Areas, levels of federal funding for each Area, levels of funding for each participating agency/dept, analyze extent of program incorporating recommendations.	Unsure	NSF: Report will be delivered to Congress in 2010		Report
NSF	7024	Instructs NSF to support basic information & communications technology research to make advanced communications services more affordable through multiyear grants to IHEs or their consortia to establish multidisciplinary Centers for Communications Research. Increases funding for this basic research.	Not found	the phrase "Center for Communications Research" not found at any page at nsf.gov.		Grants
NSF	7025	Grants through STEM Talent Expansion program to IHEs to create up to 5 centers to increase number of students graduating with STEM degrees. Priority to programs who recruit female, minority, and disabled students from low-income public schools.	Implemented	NSF: report delivered on 2/18/08		Grants/report

Agency	Section of Act	Summary	Status <sup>2</sup>	Source	Relevant Links	Type
NSF	7026	Establish Partnerships for Access to Laboratory Science Research pilot program to improve labs and provide instrumentation in secondary schools	Report not due yet.	No evidence of pilot program on NSF website		Grants
NSF	7027	NSF Director to report to Congress within 2 years on the extent to which IHEs and private entities are donating used lab equipment to elementary and secondary schools	Not found	NSF: working on white paper		Report
NSF	7028	Mathematics and Science Education Partnership Program (pre-existing... grants to IHEs and nonprofits to improve K-12 math & science instruction). Authorizes: FY '08 = \$100.0 FY '09 = \$111.0 FY '10 = \$123.2	Implemented FY '09 = \$86 (ARRA)	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Program
NSF	7028	Revises Partnership Program to include education dept an IHE, LEAs, state ed agencies, and businesses as eligible partners for IHEs and nonprofits	Implemented	NSF website	<a href="http://www.nsf.gov/pubs/2009/nsf09507/nsf09507.htm">http://www.nsf.gov/pubs/2009/nsf09507/nsf09507.htm</a>	Program
NSF	7028	Adds the following uses for grant funds: professional development for teachers to teach challenging math & science college-prep courses, lab training for teachers, induction programs for new teachers, tech and eng in student enrichment programs for female, minority, and disabled students, and development of curriculum tools for teaching inventiveness	Implemented	NSF website	<a href="http://www.nsf.gov/pubs/2009/nsf09507/nsf09507.htm">http://www.nsf.gov/pubs/2009/nsf09507/nsf09507.htm</a>	Program
NSF	7028	Director to transmit summary of partnership evaluations to Congress within 4 years, also including recommended changes to program	Not due yet	(still within 4 years)		Report
NSF	7029	Amends NSF Auth. Act of 2002 to provide additional requirements for NSF Teacher Institutes for 21st C.	Implemented	42 USC Sec. 1862n		Amendment
NSF	7030	Amends NSF Auth. Act of 2002 to rename Robert Noyce Scholarship Program to Robert Noyce Teacher Scholarship Program and change requirements	Implemented	42 USC Sec. 1862n-1		Amendment
NSF	7030	Amends NSF Auth. Act of 2002 to create program to award grants for NSF Teaching Fellowships and Master Teaching Fellowships and to prepare STEM professionals to be Fellows and recruit existing teachers as fellows.	Amended, Action Unsure	42 USC Sec. 1862n-1a		Amendment
NSF	7030	Director to transmit report on these programs and evaluate if scholarships, stipends, and fellowships have been effective in increasing number of STEM teachers in high-need LEAs	Not due yet			Report
NSF	7031	Amends Scientific and Advanced Tech Act of 1992 to require partnership arrangements that encourage female, minority, and disabled students in natl advanced sci and tech education program	Implemented	42 USC Sec. 1862i		Amendment

Agency	Section of Act	Summary	Status <sup>2</sup>	Source	Relevant Links	Type
NSF	7031	Grant program for associate degree-awarding IHEs to recruit and train STEM mentors for female, minority, and disabled students, and establish metrics for encouraging such students and evaluate NSF programs	Implemented	NSF:report submitted on 11/9/09		Grants/Report
NSF	7032	NSF Director and NAS to report to Congress about barriers to increasing underrepresented minorities in STEM and strategies for increasing minorities in STEM workforce	In progress	Report commissioned	<a href="http://www.nsf.gov/od/oia/activities/ceose/minutes/2008-02.jsp">http://www.nsf.gov/od/oia/activities/ceose/minutes/2008-02.jsp</a>	Report
NSF	7033	Competitive grants to Hispanic-serving institutions to improve STEM ed and increase graduation rates for STEM students	In progress	Held listening session for stakeholder input 3/01/09	<a href="http://nsf.gov/od/broadeningparticipation/nsf_hsilisteningsession_transcript_090301.pdf">http://nsf.gov/od/broadeningparticipation/nsf_hsilisteningsession_transcript_090301.pdf</a>	Report
NSF	7034	Clearinghouse with 4-year IHEs, industries, and agencies to share elements of successful professional science master's programs and other STEM advanced degree programs. Authorizes: FY '08 = \$10.0 FY '09 = \$12.0 FY '10 = \$15.0	FY '09 = \$15.0 (ARRA)	CRS Report	<a href="http://www.fpc.state.gov/documents/organization/125959.pdf">http://www.fpc.state.gov/documents/organization/125959.pdf</a>	Guidance
NSF	7034	Grants to IHEs to create or improve professional science master's programs. Up to 200 3-year grants.	Implemented	Several awards found for these programs	<a href="http://nsf.gov/awardsearch/">http://nsf.gov/awardsearch/</a>	Grants
NSF	7035	IHEs receiving grants under NSF Integrative Grad Ed and Research Traineeship should also train grad students to communicate research to nonscientists; report describing such training programs, including number of students trained and description of activities	Not due yet	communication requirement not found in grant overview	<a href="http://nsf.gov/funding/pgmsumm.jsp?pims_id=12759&amp;org=NSF">http://nsf.gov/funding/pgmsumm.jsp?pims_id=12759&amp;org=NSF</a>	Program/Report
NSF	7036	Sets min and max amounts of Major Research Instrumentation program, permits funds to be used to maintain instrumentation, requires PhD-granting IHEs receiving awards to provide 30% of cost from nonfederal sources	Implemented	Grant overview at NSF website	<a href="http://www.nsf.gov/pubs/2009/nsf09502/nsf09502.htm">http://www.nsf.gov/pubs/2009/nsf09502/nsf09502.htm</a>	Grants
NSF	7037	Revises selection process and limits number of pre-proposals for awards. NSB to assess institutional effects of NSF policies on limiting number of proposals from single institution, determine if policy is appropriate, and report findings and recommend any changes.	Implemented	Committee report at NSF website (8/13/08)	<a href="http://www.nsf.gov/nsb/committees/csb/2008_prop_limits.pdf">www.nsf.gov/nsb/committees/csb/2008_prop_limits.pdf</a>	Grants
General	8001	Collection of data related to trade in services	Implemented	Congressional record: response provided in March 2008		Report
General	8002	Sense of Senate re: small business growth and capital markets	Unsure			Guidance
General	8003	GAO review of activities, grants, and programs	Not due yet			Report
General	8004	Sense of Senate re: anti-competitive tax policy	Unsure			Guidance

Agency	Section of Act	Summary	Status <sup>2</sup>	Source	Relevant Links	Type
General	8005	Study of provision of on-line degree programs	Not implemented; awaiting appropriations	DOE		
General	8006	Sense of the Senate regarding Deemed Exports	Unsure			Guidance
General	8007	Sense of the Senate regarding Capital Markets	Unsure			Guidance
General	8008	Accountability and Transparency of Activities Authorized by this Act	Unsure			Guidance

**<sup>1</sup>Methodology:**

The first resource for investigating each program delineated by the Act was the respective agency's website, where we navigated to an appropriate section or used an internal search tool. If that was not effective, we conducted a broader Internet search restricting the results to .gov domains or to the agency website(s) and after August, 2007. We also used searches restricted to news sources in some cases.

**<sup>2</sup>Status:**

"Implemented" means that, to the best of our knowledge, the respective section's provisions were met. "Unsure" means we have no compelling evidence to suggest whether or not it has been carried out. "Not found" means that it was conspicuously missing from our sources. "In progress" means implementation is underway or projected to begin. "Amended; No evidence of implementation or Action Implemented" means the amendment was made and gives the status of the corresponding action.

**Note**

All dollars in millions