



## Preparing Our Children for the 21<sup>st</sup> Century Economy *Science, Technology, Engineering and Mathematics (STEM) Education in the 2010 Budget*

The 2010 Budget makes a renewed commitment to education in science, technology, engineering, and mathematics (STEM) fields because the progress and prosperity of future generations will depend on what we do now to educate our students. The 2010 Budget invests \$3.7 billion in STEM education programs throughout the federal government in over 100 programs identified by the Academic Competitiveness Council (ACC; see Table), an increase of \$98 million or 2.7 percent over the 2009 enacted level for these programs. In addition, the Recovery Act provides a preliminary \$276 million for these programs, which will be spent over 2009 and 2010. (Preliminary allocations of Recovery Act investments are listed in a separate column in the Table; dollar and percentage changes are from 2009 enacted appropriations (excluding Recovery Act funds) to the 2010 Budget.)

For STEM programs, 2010 Budget highlights include:

- The President's commitment to triple the number of **Graduate Research Fellowships (GRF)** at the National Science Foundation (NSF) to 3,000 by 2013. The 2010 budget provides \$122 million for the NSF GRF program.
- Funding for the **Math and Science Partnerships (MSPs)** are sustained at \$179 million for the Department of Education component in the 2010 Budget, and \$58 million for the NSF component. Both components facilitate partnerships between local school districts and higher education institutions to improve math and science education.
- A new Department of Energy (DOE) Energy Efficiency and Renewable Energy (EERE) **RE-ENERGYSE (REgaining our ENERGY Science and Engineering Edge)** program will form the core of DOE's participation in a joint DOE-NSF initiative to inspire tens of thousands of American students to pursue STEM careers, particularly in clean energy. The 2010 Budget provides \$115 million for DOE to launch this program.
- \$64 million, an increase of \$12 million, for NSF's **Advanced Technological Education (ATE)** program to promote partnerships between higher education institutions and employers to educate technicians for the high-technology fields that drive our nation's economy. ATE focuses on two-year colleges.
- \$798 million in the 2010 Budget, an increase of \$8 million, for the **Ruth L. Kirschstein National Research Service Award (NRSA)** program at the National Institutes of Health (NIH). The NRSA program provides training for the next generation of biomedical researchers.
- An expansion of the Department of Defense's (DOD) **Science, Mathematics and Research for Transformation (SMART) program** of physical sciences and engineering graduate scholarships with a government service component, to \$37 million in the 2010 Budget, up from the \$28 million 2009 enacted level.

Table. Federal STEM Education Program Funding

**Table. Federal STEM Education Program Funding by Agency**

(budget authority in millions)

	FY 2008 Enacted	FY 2009 Enacted	FY 2009 ARRA 1/	<b>FY 2010 Budget</b>	Change FY 09-10 2/ Amount	Percent
Corporation for Nat'l & Community Service	3	7	0	<b>7</b>	0	0.0%
Agriculture	44	47	0	<b>88</b>	41	87.2%
Commerce	47	50	43	<b>36</b>	-14	-28.0%
Defense	209	218	0	<b>229</b>	11	5.0%
Education	708	850	0	<b>763</b>	-87	-10.2%
Energy	20	24	13	<b>148</b>	124	516.7%
Health and Human Services	837	845	0	<b>853</b>	8	0.9%
Homeland Security	93	99	0	<b>106</b>	7	7.1%
Labor	0	10	0	<b>0</b>	-10	-100.0%
Interior	23	24	0	<b>26</b>	2	8.3%
Transportation	158	159	0	<b>174</b>	15	9.4%
Environmental Protection Agency	10	10	0	<b>11</b>	1	10.0%
NASA	147	169	0	<b>126</b>	-43	-25.4%
National Science Foundation	1,013	1,066	220	<b>1,109</b>	43	4.0%
<b>Total STEM Education</b>	<b>3,312</b>	<b>3,578</b>	<b>276</b>	<b>3,676</b>	<b>98</b>	<b>2.7%</b>

1/ Based on preliminary allocations of Recovery Act (P.L. 111-5) appropriations. These figures may change.

2/ Excludes Recovery Act appropriations. Change is regular FY 2009 appropriations to FY 2010 request.

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