Science, Technology, Engineering, and Mathematics (STEM) Education

ADA462518
Review and Appraisal of the Federal Investment in STEM Education Research
Executive Office of the President, Washington, DC. National Science and Technology Council. 2006, 107p
Related Categories/Sub-Categories: 70B (Management Practice) 92D (Education, Law, & Humanities) 92 (Behavior & Society)
Keywords: *United States Government, Education, Review.

PB2012100718
Related Categories/Sub-Categories: 92E (International Relations) 92D (Education, Law, & Humanities) 70E (Research Program Administration & Technology Transfer) 41P (Research Program Administration & Technology Transfer) 96 (Business & Economics)
Keywords: Technology innovation, International cooperation, Universities.

ADA503549
Related Categories/Sub-Categories: 72E (Operations Research) 74E (Logistics, Military Facilities, & Supplies) 70D (Personnel Management, Labor Relations & Manpower Studies) 70E (Research Program Administration & Technology Transfer) 94K (Laboratory & Test Facility Design & Operation), 92D (Education, Law, & Humanities)
Keywords: Technology forecasting, Scientific research, Engineering.

PB2013104280
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities), 92C (Social Concerns)
Keywords: Courses, Programs, Postsecondary education.

PB2013104450
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 70B (Management Practice)
Keywords: Education, Employment, Strategic planning.

ADA462148
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 92C (Social Concerns)
Keywords: Education, Students, Engineering.
PB2013105687
National Science and Technology Council, Washington, DC. 2012, 65p
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 70B (Management Practice) 70E (Research Program Administration & Technology Transfer) 70F (Public Administration & Government)
Keywords: Federal budgets, Education, Scientists.

PB2013105693
Prepare and Inspire: K-12 Education in Science, Technology, Engineering, and Math (STEM) for America’s Future. Report to the President.
President’s Council of Advisors on Science and Technology, Washington, DC. 2010, 142p
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 70B (Management Practice) 70E (Research Program Administration & Technology Transfer) 70F (Public Administration & Government)
Keywords: Education, Scientists, Engineers.

PB2013105356
STEM Workforce Challenge: The Role of the Public Workforce System in a National Solution for a Competitive Science, Technology, Engineering, and Mathematics (STEM) Workforce.
Employment and Training Administration, Washington, DC. 2007, 20p
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 70D (Personnel Management, Labor Relations & Manpower Studies) 92A (Job Training & Career Development)
Keywords: Education, Workforce, Employment.

PB2013105357
Preparing the Next Generation of STEM Innovators: Identifying and Developing Our Nation’s Human Capital.
National Science Board, Arlington, VA. 2010, 62p
NSB-10-33
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 96F (Banking & Finance) 70E (Research Program Administration & Technology Transfer)
Keywords: Education, Students, Innovation.

PB2013105358
Arizona Dept. of Education, Phoenix. 2012, 30p
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 92C (Social Concerns) 43C (Human Resources) 91K (Social Services)
Keywords: Education, Arizona, Reading.

PB2013105359
RTI International, Research Triangle Park, NC. 2011, 191p
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 96F (Banking & Finance)
Keywords: Postsecondary education, Awards, Academics.

PB2013105360
Oklahoma Dept. of Commerce, Oklahoma City, Oklahoma State Data Center, Oklahoma Center for Advancement of Science and Technology, Oklahoma City. 2012, 48p
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 70E (Research Program Administration & Technology Transfer)
Keywords: Science, Technology, Oklahoma.

PB2013105361
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 92C (Social Concerns) 70E (Research Program Administration & Technology Transfer)
Keywords: Education, Math, Science, Alabama.

PB2013105362
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 92C (Social Concerns) 70E (Research Program Administration & Technology Transfer)
Keywords: Education, Legislation, Innovation.

PB2013105363
Mega-States: An Analysis of Student Performance in the Five Most Heavily Populated States in the Nation.
Educational Testing Service, Princeton, NJ. 2013, 33p
Related Categories/Sub-Categories: 92D (Education, Law, & Humanities) 70B (Management Practice) 72F (Statistical Analysis)
Keywords: Education, Students, Performance.

Key to Database Fields Used
The following NTIS database fields are used in this short listing of recently acquired technical reports.
- NTIS Order Number
- Title
- Source
- Report Year, Page Count
- Report Number/ISBN13 (if available)
- Related Categories/Sub-categories (where the document is also indexed)
- Keywords

RSS Feeds are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.

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**Major Subject Categories**

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* Scope Notes define the specific topical content for each category; 
** Quantities represent each new report assigned on average to 3-5 categories.

**Subject Category Codes/Classification**

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.
ADA546699
Scientific Approach To STEM Education.
Office of Science and Technology Policy, Washington, DC.
2011, 34p
Related Categories/Sub-Categories:
70D (Personnel Management, Labor Relations & Manpower Studies)
88D (Personnel), 92A (Job Training & Career Development)
Keywords: *United States, Students, Education, Mathematics.

ADA547272
Strengthening the STEM Education & Workforce Pipeline: Insights from the BHEF U.S. STEM Education Model Led to the STEM Higher Education and Workforce Project.
Raytheon Co., Arlington, VA.
2011, 14p
Related Categories/Sub-Categories:
70D (Personnel Management, Labor Relations & Manpower Studies)
88D (Personnel), 92A (Job Training & Career Development)
92D (Education, Law, & Humanities)
Keywords: Motivation, Education, Students.

ADA554747
Executive Office of the President, Washington, DC.
National Science and Technology Council.
2011, 118p
Related Categories/Sub-Categories:
70D (Personnel Management, Labor Relations & Manpower Studies)
88D (Personnel), 92A (Job Training & Career Development)
92D (Education, Law, & Humanities)
Keywords: Education, Personnel development, Scientific research.

N2012003750
National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center.
2012, 15p
Related Categories/Sub-Categories:
92C (Social Concerns)
Keywords: Education, Extravehicular activity, NASA programs.

PB2013105263
North Carolina State Dept. of Public Instruction, Raleigh.
2012, 29p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
70E (Research Program Administration & Technology Transfer)
Keywords: Science, Technology, North Carolina.

PB2013105268
2012, 20p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
70E (Research Program Administration & Technology Transfer)
Keywords: Science, Technology, West Virginia.

PB2009105265
National Science and Technology Council, Washington, DC. Committee on Transportation Research and Development.
2008, 40p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
70F (Public Administration & Government)
Keywords: Science education, Federal programs, Government agencies.

PB2009114342
Students Who Study Science, Technology, Engineering, and Mathematics (STEM) in Postsecondary Education.
2009, 25p
NCES-2009-161
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
70E (Research Program Administration & Technology Transfer)
Keywords: Statistics Brief, Postsecondary education, Overview.

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The National Technical Reports Library Newsletter
volume 5  •  number 9 •  March 15th, 2013

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Subject selections:
Agriculture and Food
Biomedical Technology and Human Factor Engineering
Building Industry Technology
Business & Economics
Civil Engineering
Communication
Computers, Control & Information Theory
Electrotechnology
Energy
Environmental Pollution and Control
Government Inventions for Licensing
Health Care
Manufacturing Technology
Materials Sciences
Ocean Sciences and Technology
Transportation
PB201103611
2010, 176p
Related Categories/Sub-Categories:
74 (Military Sciences)
92A (Job Training & Career Development)
70D (Personnel Management, Labor Relations & Manpower Studies)
Keywords: Air force personnel, Education, Training.

PB2011112829
Successful K-12 Stem Education: Identifying Effective Approaches in Science, Technology, Engineering, and Mathematics.
National Research Council, Washington, DC. Commission on Behavioral and Social Sciences and Education.
2011, 44p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
Keywords: Education, Early childhood education, Science education.

PB2011114254
Women in STEM: A Gender Gap to Innovation. Executive Summary.
Economics and Statistics Administration, Washington, DC.
2011, 11p
ESA/IB-04-11
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
Keywords: Education, Women, Jobs, Workforce.

PB2011114803
Economics and Statistics Administration, Washington, DC.
2011, 10p
ESA/IB-03-11
Related Categories/Sub-Categories:
92A (Job Training & Career Development)
70D (Personnel Management, Labor Relations & Manpower Studies)
44P (Health Education & Manpower Training)
Keywords: Labor force, Occupations, Jobs.

PB2012100626
Successful STEM Education: A Workshop Summary.
National Academy of Sciences-National Research Council, Washington, DC.
2011, 94p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
Keywords: Education, Workshops, Science education.

PB2012106719
National Academy of Engineering, Washington, DC.
2012, 78p
Related Categories/Sub-Categories:
70D (Personnel Management, Labor Relations & Manpower Studies)
92D (Education, Law, & Humanities)
74 (Military Sciences)
Keywords: Workforce capabilities, Workforce needs, Workshops.

PB2012109946
Congressional Research Service, Washington, DC.
2012, 24p
Related Categories/Sub-Categories:
70B (Management Practice)
70F (Public Administration & Government)
92D (Education, Law, & Humanities)
Keywords: Education, Federal budgets, Federal agency.

PB2012110652
Congressional Research Service, Washington, DC.
2012, 31p
Related Categories/Sub-Categories:
92C (Social Concerns)
92D (Education, Law, & Humanities)
70D (Personnel Management, Labor Relations & Manpower Studies)
Keywords: Immigration, Education, Science.
PB2013102857
STEM in Postsecondary Education: Entrance, Attrition, and Course-taking Among 2003-04 Beginning Postsecondary Students.
MPR Associates, Inc, Washington, DC.
2012, 57p
NCES 2013-152
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
70E (Research Program Administration & Technology Transfer)
Keywords: Statistics brief, Postsecondary education, Overview.

PB2013104450
Geological Survey, Reston, VA.
2013, 34p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
70B (Management Practice)
Keywords: Education, Employment, Strategic planning.

PB2009108369
Comparative Indicators of Education in the United States and Other G-8 Countries: 2009.
2009, 119p
NCES-2009-039
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
70B (Management Practice)
Keywords: Education, Indicators, United States.

PB2001104243
RTI International, Research Triangle Park, NC.
2009, 119p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
43 (Problem Solving Information for State & Local Governments)
Keywords: Education, Academic achievement, Mathematics.

PB2011013192
Windwalker Corporation, McLean, VA.
2010, 72p
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
Keywords: Student performance, Science literacy, Mathematics literacy.

PB2011103476
Cross-National Variation in Educational Preparation for Adulthood: From Early Adolescence to Young Adulthood.
2001, 66p
NCES WP-2001-01
Related Categories/Sub-Categories:
92C (Social Concerns)
Keywords: Education, Adult literacy, Math achievement.

PB2012100687
Education Supports Racial and Ethnic Equality in STEM: Executive Summary.
Economics and Statistics Administration, Washington, DC.
2011, 11p
ESA IB-05-11
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
92C (Social Concerns)
Keywords: Racial equality, Education, Ethnic equality.

PB2005100150
Oklahoma Univ. Health Sciences Center, Oklahoma City.
2004, 32p
PB2005-100150
Related Categories/Sub-Categories:
57U (Public Health & Industrial Medicine)
4P (Health Education & Manpower Training)
92A (Job Training & Career Development)
94D (Job Environment)
Keywords: Training programs, Industrial hygiene, Occupational safety and health.

DE2010992018
Pacific Northwest National Lab., Richland, WA.
2009, 25p
PNNL-18948
Related Categories/Sub-Categories:
74 (Military Sciences)
92A (Job Training & Career Development)
70D (Personnel Management, Labor Relations & Manpower Studies)
Keywords: National security, Defense systems, Technology utilization.

PB2011109825
2010, 160p
NSF-10-318
Related Categories/Sub-Categories:
92 (Behavior & Society)
70D (Personnel Management, Labor Relations & Manpower Studies)
Keywords: Engineers, Scientists, Surveys.

PB2011103480
Comparison of the National Assessment of Educational Progress (NAEP), the Third International Mathematics and Science Study Repeat (TIMSS-R), and the Programme for International Student Assessment (PISA).
2001, 70p
NCES-WP-2001-07
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
Keywords: Education, Literacy, Eighth grade, Scientific literacy.

FREE DOWNLOAD N20120004301
Bringing You the Moon: Lunar Education Efforts of the Center for Lunar Science and Education.
National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center.
2012, 2p
JSC-CN-26069
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54 (Astronomy & Astrophysics)
48 (Extraterrestrial Exploration)
Keywords: Education, Lunar exploration, Educational resources.

FREE DOWNLOAD ADA444196
Pima County Community College. Tucson, AZ.
2006, 5p
PROS-R8933-02
Related Categories/Sub-Categories:
92C (Social Concerns)
92D (Education, Law, & Humanities)
72 (Mathematical Sciences)
Keywords: Education, Engineering, Mathematics.

FREE DOWNLOAD DE20121034811
Idaho National Laboratory, Idaho Falls, ID.
INL/CON-11-23459
Related Categories/Sub-Categories:
92D (Education, Law, & Humanities)
92A (Job Training & Career Development)
70D (Personnel Management, Labor Relations & Manpower Studies)
Keywords: Education, Employment, Economic growth.

FREE DOWNLOAD DE20121042708
Support for Students and Young Scientists to Participate in the American Chemical Society Symposium Entitled Lanthanides and Actinides: A Chemists’ Perspective March 21-25, 2010 Held In San Francisco, Ca.
Missouri Univ.-Kansas City.
2011, 4p
DOE-MU-03653
Related Categories/Sub-Categories:
99 (Chemistry)
92D (Education, Law, & Humanities)
Keywords: Chemistry, Scientists, Meetings.
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