

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

6 - MANAGEMENT SUPPORT

PE NUMBER AND TITLE

0605803A - Technical Information Activities

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	18593	30219	33749	0	0	0	0	0	0	0
720 TECH INFO FUNC ACTV	3054	3625	3735	0	0	0	0	0	0	0
727 TECH INFO ACTIVITIES	3100	5225	5602	0	0	0	0	0	0	0
729 YOUTH SCIENCE ACTIV	2137	2070	2136	0	0	0	0	0	0	0
730 PERS & TRNG ANALYS ACT	1998	2168	2237	0	0	0	0	0	0	0
731 ARMY HIGH PERFORMANCE COMPUTING CENTERS (AHPCC)	0	10543	7282	0	0	0	0	0	0	0
733 ACQUISITION TECH ACT	4241	2638	8699	0	0	0	0	0	0	0
735 NET ASSESSMENT DIRECTORATE	747	756	766	0	0	0	0	0	0	0
C16 FAST	2566	2465	2543	0	0	0	0	0	0	0
C18 BAST	750	729	749	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program supports upgrading the accuracy, timeliness, availability, and accessibility of scientific, technical, and management information at all levels of Army Research and Development (R&D). Management of this information is critical to achieve the goals established by the Army's Senior Leadership for the Future Combat Systems and the Objective Force. Use of accurate and timely technical information is essential to successfully meeting the milestones required on the path to the Objective Force, allowing Army S&T leadership to refine investment strategy and quickly react to emerging opportunities and issues. This program includes initiatives to improve information derivation, storage, access, display, validation, transmission, distribution, and interpretation. This program addresses the need to increase the competitiveness and availability of scientific, engineering, and technical skills in the DoD and National workforce through outreach programs aimed at high school students. By providing direct working experience for these students in Army laboratories, the programs expose these students to the working world of science and engineering. Funding under this program enables the conducting of analyses, using behavioral science-based analytic tools, to provide policy and decision makers with soldier-oriented recommendations concerning manpower, personnel and training issues. This program also supports Commanders-in-Chief (CINCs) and major Army commands by providing science advisors to address scientific and technical issues and by providing engineering teams to solve field Army technical problems. Coordination of this program with the other Services is achieved through interservice working groups. The work in this program element is peer-reviewed and is consistent with the Army Science and Technology Master Plan (ASTMP). These projects are managed by the Army Research Laboratory, the Army Materiel Command, the Army Research Office, the Army Research Institute, the Army Corps of Engineers and the Information Management Office. The work performed in Project 731 (Army High Performance Computing Centers) and Project 735 (Net Assessment Directorate) directly support Objective Force requirements

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by providing high fidelity modeling, simulation, and analyses of materials, systems, and operational constructs to be employed within the Objective Force, and future threat assessments for use in designing Objective Force equipment. The cited work is consistent with the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan, and Project Reliance. The program element contains no duplication with any effort within the Military Departments.

<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	15859	26749	26989	0
Appropriated Value	15973	30499	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-403	0	0	
c. Omnibus or Other Above Threshold Reductions	-61	0	0	
d. Below Threshold Reprogramming	3137	0	0	
e. Rescissions	-53	-280	0	
Adjustments to Budget Years Since FY2001 PB	0	0	6760	
Current Budget Submit (FY 2002/2003 PB)	18593	30219	33749	0

Change Summary Explanation: Funding - In FY 2001, a Congressional add was received for Project 731, Army High Performance Computing Centers (3750).

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<p>FY 2002/2003: Funds realigned in order to conduct HQDA directed studies and analyses in support of major acquisitions (FY 2002: +6616/FY 2003: +6902).</p> <p>Projects without R-2A Exhibits containing less than \$1M in FY 2002/2003:</p> <ul style="list-style-type: none"> - FY 2002 (766) Project 735, Net Assessment Directorate: Develop and coordinate net assessments of the standing, trends and future prospects for U.S. military capabilities and military potential in comparison with those of other countries or groups of countries to identify emerging or future threats or opportunities for the U.S. - FY 2002 (749) Project C18, Support Board on Army Science and Technology (BAST) of the National Research Council (NRC), providing technical expert support for forecast of Army S&T needs and to address significant S&T issues. 		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001			
BUDGET ACTIVITY 6 - MANAGEMENT SUPPORT			PE NUMBER AND TITLE 0605803A - Technical Information Activities					PROJECT 720		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
720 TECH INFO FUNC ACTV	3054	3625	3735	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification: This project provides for technology transfer activities to support acquisition, storage, and utilization of technical information for both military and domestic applications. Effective exploitation of S&T information is critical to doing things that have never been done before in achieving the goals established by Senior Army Leadership for the Future Combat Systems and the Objective Force. Specific activities supported include: the Technology Seminar Game; Independent Review Teams; the Defense Technical Information Center (DTIC) Work Unit Information Summary (WUIS) database; the Federal Laboratory Consortium (FLC); the Army Science Board; and administration of the Army's Small Business Innovative Research (SBIR) and Small Business Technology Transfer Pilot Program (STTR) in accordance with the "Small Business Research and Development Enhancement Act of 1992". The SBIR/STTR costs are funded in this Program because the Act prohibits use of PE 0605502A funding for: administrative costs; studies and analyses to support the Acquisition Corps; acquisition and retention of scientists and engineers; and improvement of productivity of laboratories and centers. Technology transfer activities make technical information available to both the public and private sectors to reduce duplication in R&D programs and to increase competitiveness in the U.S. business community. In addition, this project provides funding for patent legal expenses and fees for all U.S. Army Materiel Command (AMC) subordinate commands and laboratories. The requirement to fund patent activities is a result of the Omnibus Budget Reconciliation Act requiring the U. S. Patent and Trademark Office to become a completely user-fee funded agency. This program supports the Objective Force transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 3054 - Provided Army funding support for Federal Laboratory Consortium as required by Public Law 104-113. - Provided administrative and contractual support for the Army Science Board. - Provided administrative support for the Army's SBIR and STTR programs. - Provided Army Science and Technology Reports. - Provided funding for patent fees and patent legal expenses for AMC commands and laboratories. - Provided funding for Technology and Materiel Game. - Provided funding for Independent Review Teams to assess technology status and recommend investment strategy. <p>Total 3054</p>										

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PROJECT

720**FY 2001 Planned Program**

- 3526 - Provide Army funding support for Federal Laboratory Consortium as required by Public Law 104-113.
 - Provide administrative and contractual support for the Army Science Board.
 - Provide administrative support for the Army's SBIR and STTR programs.
 - Provide Army Science and Technology Reports.
 - Provide funding for patent fees and patent legal expenses for AMC commands and laboratories.
 - Provide funding for Independent Review Teams to assess technology status and recommend investment strategy.
 - 99 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs.
- Total 3625

FY 2002 Planned Program

- 3735 - Provide Army funding support for Federal Laboratory Consortium as required by Public Law 104-113..
 - Provide administrative and contractual support for the Army Science Board.
 - Provide administrative support for the Army's SBIR and STTR programs.
 - Provide Army Science and Technology Reports.
 - Provide funding for patent fees and patent legal expenses for AMC commands and laboratories.
 - Provide funding for Independent Review Teams to assess technology status and recommend investment strategy.
- Total 3735

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 6 - MANAGEMENT SUPPORT				PE NUMBER AND TITLE 0605803A - Technical Information Activities				PROJECT 727		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
727 TECH INFO ACTIVITIES	3100	5225	5602	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> This project supports development of decision aids, databases, and automation support for the management and execution of the Army Research, Development, Test and Evaluation (RDTE) Appropriation. It includes the hardware, software and contractor support required to develop and implement a set of management decision aids, databases, and hardware/software tools to support technical and budgetary decisions at the Office of the Secretary of Defense (OSD); Department of the Army (DA), including support of the Army Science and Technology Master Plan; Corps of Engineers; Army Materiel Command (AMC); and Army Research Laboratory. This project includes support of the Acquisition Management Integration Subgroup (AMIS) dealing with acquisition management systems. Most of the efforts in this project are on-going activities to support Army Research, Development and Acquisition programs. Effective exploitation of S&T information is critical to do things that have never been done before in achieving the goals established by Senior Army Leadership for the Future Combat Systems and the Objective Force. This program supports the Objective Force transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> • 3100 - Administered S&T database computer engineering support contract. - Supported Army S&T strategic planning, analysis, and prioritization. - Supported AMC database and Defense Reliance management. - Provided guidance and policy relative to the content, utilization, and requirements of current and future acquisition management systems for AMIS. <p>Total 3100</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY 6 - MANAGEMENT SUPPORT	PE NUMBER AND TITLE 0605803A - Technical Information Activities	PROJECT 727
<p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> • 5074 - Administer S&T database computer engineering support contract. - Support Army S&T strategic planning, analysis, and prioritization. - Support AMC database and Defense Reliance management. • 151 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs. <p>Total 5225</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> • 5602 - Administer S&T database computer engineering support contract. - Support Army S&T strategic planning, analysis, and prioritization. - Support AMC database and Defense Reliance management. <p>Total 5602</p>		

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PROJECT

729

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
729 YOUTH SCIENCE ACTIV	2137	2070	2136	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project supports science activities to encourage over 100,000 high school youths to develop an interest and pursue higher education and employment in the scientific, engineering, and mathematics career fields. These activities are consolidated entirely within this program to "present the Army" to a large potential pool of technical talent to fill future Army S&T workforce needs. The joint Army/Navy Washington regional area Science and Engineering Apprenticeship Program (SEAP) is included in the overall effort. The SEAP provides an eight-week hands-on learning experience for high school students to work with bench level scientists in Army laboratories to encourage more students to pursue scientific/engineering careers. This program enhances the National Laboratory Science and Engineering pool, which in turn supports Defense industry and Army laboratory needs. This program supports the Objective Force transition path of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

- 2137 - Fostered high school student interest nationally in science, mathematics, engineering and computer science by sponsoring Junior Science and Humanities Symposia (JSHS), International Science and Engineering Fairs (ISEF), International Mathematics Olympiad (IMO), and Research and Engineering Apprenticeship Program (REAP).
 - Conducted the joint Army/Navy Washington Regional Area SEAP and increased Army Laboratory/Research, Development and Engineering Center (RDEC) sponsorship of students.
 - Conducted the United Introduction to Engineering (UNITE) program, a special tutorial program for Native Americans, African Americans, and Spanish-speaking Americans designed to increase their chances of attending and completing engineering and/or science curricula at the university level.
 - Conducted West Point cadet research internship program to enhance cadet training through field experience within Army research labs and centers.

Total 2137

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PROJECT

729**FY 2001 Planned Program**

- 2009 - Foster high school student interest nationally in science, mathematics, engineering and computer science by sponsoring JSHS, ISEF, IMO, and REAP.
 - Sponsor joint Army/Navy Washington Regional Area SEAP and increase Army Laboratory/RDEC sponsorship of students.
 - Conduct the (UNITE) program to increase the numbers of Native Americans, African Americans, and Spanish-speaking Americans attending and completing engineering and/or science curricula at the university level.
 - Conduct West Point cadet research internship program to enhance cadet training through field experience within Army research labs and centers.

- 61 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs..

Total 2070

FY 2002 Planned Program

- 2136 - Foster high school student interest nationally in science, mathematics, engineering and computer science by sponsoring JSHS, ISEF, IMO, and REAP.
 - Sponsor joint Army/Navy Washington Regional Area SEAP and increase Army Laboratory/RDEC sponsorship of students.
 - Conduct the (UNITE) program to increase the numbers of Native Americans, African Americans, and Spanish-speaking Americans attending and completing engineering and/or science curricula at the university level.
 - Conduct West Point cadet research internship program to enhance cadet training through field experience within Army research labs and centers.

Total 2136

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June 2001

BUDGET ACTIVITY
6 - MANAGEMENT SUPPORT

PE NUMBER AND TITLE	PROJECT
0605803A - Technical Information Activities	730

730

COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
730	PERS & TRNG ANALYS ACT	1998	2168	2237	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project provides for the application of behavioral science-based analytical technologies by the U.S. Army Research Institute (ARI) for the Behavioral and Social Sciences to current and near-term training, leadership, and soldier-related (TLS) issues. The program is focused on policy issues to enhance soldier performance, and provides the Army a unique capability for addressing such issues as the effects of training on individual and unit readiness, the personnel costs of alternative force structures, and the effects of a smaller Army on readiness and retention of quality soldiers. Requirements for studies and analyses for critical personnel and training issues of immediate importance are solicited on an annual basis. This program supports the Objective Force transition path of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

- 1998
 - Developed a Transition Book to guide commanders of units that are transitioning to digital operation.
 - Conducted an empirical evaluation of the post-training performance of soldiers trained by distance learning and conventional classroom methods.
 - Identified factors leading to soldier attrition from the training base.
 - Developed plan to evaluate the effect of in-service civilian education on soldier career progression.

Total 1998

FY 2001 Planned Program

- 2111
 - Produce a modifiable database of insights of commanders and key leaders on managing change in digital divisions.
 - Develop interventions to reduce Army linguist attrition.
 - Identify the Military Occupational Specialty (MOS) for which the need for soldiers with multiple skills will be of the highest operational significance, and the skill composition of those MOS.
 - Develop data base for identifying effectiveness of buddy assignment on reducing attrition.

FY 2000 Accomplishments

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 - Conducted an empirical evaluation of the post-training performance of soldiers trained by distance learning and conventional classroom methods.
 - Identified factors leading to soldier attrition from the training base.
 - Developed plan to evaluate the effect of in-service civilian education on soldier career progression.

Total 1998

FY 2001 Planned Program

- 2111 - Produce a modifiable database of insights of commanders and key leaders on managing change in digital divisions.
 - Develop interventions to reduce Army linguist attrition.
 - Identify the Military Occupational Specialty (MOS) for which the need for soldiers with multiple skills will be of the highest operational significance, and the skill composition of those MOS.
 - Develop data base for identifying effectiveness of buddy assignment on reducing attrition.

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
6 - MANAGEMENT SUPPORT	0605803A - Technical Information Activities	730
<u>FY 2001 Planned Program (Continued)</u>		
	- Derive updated information on Army College Fund and GI Bill usage rates.	
	- Empirically evaluate new operational Armed Services Vocational Aptitude Battery (ASVAB)aptitude composites for MOS assignment.	
• 57	- Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs.	
Total 2168		
<u>FY 2002 Planned Program</u>		
• 2237	- Conduct studies and analyze training issues identified by Training and Doctrine Command (TRADOC).	
	- Conduct studies and analyze personnel issues identified by the Chief of Staff, Army (CSA), Assistant Secretary of the Army for Manpower and Reserve Affairs [ASA(M&RA)], Deputy Chief of Staff for Personnel (DCSPER), and Commander, U.S. Total Army Personnel Command (PERSCOM).	
Total 2237		

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BUDGET ACTIVITY 6 - MANAGEMENT SUPPORT				PE NUMBER AND TITLE 0605803A - Technical Information Activities				PROJECT 731			
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
731	ARMY HIGH PERFORMANCE COMPUTING CENTERS (AHPCC)	0	10543	7282	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> The work in this project directly supports Objective Force requirements by providing high fidelity modeling, simulation, and analysis of materials, systems, and operational constructs to be employed within the Objective Force. The project supports collaborative efforts to advance computational science and its application to critical Army technologies. The Centers work with researchers at Army laboratories to explore new algorithms in the computational sciences to address critical technology issues in numerous, diverse computational research areas. The Centers also sustain high performance computing environments and educational outreach as an integral part of their mission. This program supports the Objective Force transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2000 Accomplishments</u> -Funded in O&M, Army PE 0708610A</p> <p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> • 2370 - Sustain the high performance computing environment and infrastructure in support of Army Tank and Automotive Research Development and Engineering Center (TARDEC). • 2760 - Sustain the high performance computing environment and infrastructure in support of the Army Research Laboratory Major Shared Research Center (MSRC). • 1349 - Sustain the high performance computing environment and infrastructure in support of the Army High Performance Computing Research Center's (AHPCRC) research and educational activities. • 3750 - Purpose of this one year Congressional add is to conduct technology exchange with Army researchers in critical computational sciences research areas. Technology transfer activities include: applying improved computational models of the properties of new ceramic materials to be used in support of the Objective Force; applying new computational techniques to drug/vaccine design; and applying new computational methods to the studies of atmospheric modeling. 											

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BUDGET ACTIVITY 6 - MANAGEMENT SUPPORT	PE NUMBER AND TITLE 0605803A - Technical Information Activities	PROJECT 731
<p><u>FY 2001 Planned Program (Continued)</u></p> <ul style="list-style-type: none"> • 314 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs. <p>Total 10543</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> • 2550 - Sustain the high performance computing environment and infrastructure in support of TARDEC. • 3400 - Sustain the high performance computing environment and infrastructure in support of the MSRC. • 1332 - Sustain the high performance computing environment and infrastructure in support of the AHPCRC's research and educational activities. <p>- Conduct technology exchange with Army researchers in critical computational sciences research areas. Technology transfer activities include: applying improved computational models of the properties of new ceramic materials to be used in the support of the Objective Force; applying new computational techniques to drug/vaccine design; and applying new computational methods to the studies of atmospheric modeling.</p> <p>Total 7282</p>		

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BUDGET ACTIVITY 6 - MANAGEMENT SUPPORT				PE NUMBER AND TITLE 0605803A - Technical Information Activities				PROJECT 733		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
733 ACQUISITION TECH ACT	4241	2638	8699	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> This project improves the Army's acquisition process by applying decision support and expert information systems, and by supporting analysis and evaluation of alternative acquisition strategies using techniques such as value-added analysis. This project supports integrated management activities such as Horizontal Technology Integration and Army Ballistic Missile Defense. This project also provides: an environment for the analysis and evaluation of new information technologies, and concepts and applications in support of the Army acquisition community's dynamic requirements.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> • 4241 - Validated simulation and logical modeling test and evaluation (T&E) environment that provides a prototype development tool to support technology base initiatives. - Distributed and beta tested application programs and user interface utilities for executive level information systems that offer Standard Query Language (SQL) services to Army Acquisition Corps (AAC) corporate and global databases. - Analyzed acquisition program financial programming and budgeting requirements. - Continued development of Weapon Systems Handbook, analytic/technical support for Army Science and Technology Programs, long-range planning and policy analysis, resource allocation analysis, cost tracking and analysis, cost-effectiveness and database management/financial analysis, special access required technology application concept research/analysis. <p>Total 4241</p>										

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- 2560 - Validate simulation and logical modeling T&E environment to provide a prototype development tool in support of technology base initiatives.
 - Distribute and beta test application programs and user interface utilities for executive level information systems that offer Standard Query Language (SQL) services to AAC corporate and global databases.
 - Analyze acquisition program financial programming and budgeting requirements.
 - Continue development of Weapon Systems Handbook, Analytic/Technical Support for Army Support for Army Science and Technology Programs, long-range planning and policy analysis, resource allocation analysis, cost tracking and analysis, cost-effectiveness and database management/financial analysis, special access required technology application concept research/analysis.
 - 78 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs.
- Total 2638

FY 2002 Planned Program

- 8699 - Conduct studies, analyses and evaluations to improve Army acquisition processes, support integrated management activities and evaluate information technologies.
 - Analyze acquisition program financial programming and budgeting requirements.
 - Continue development of Weapon Systems Handbook, Analytic/Technical Support for Army Support for Army Science and Technology Programs, long-range planning and policy analysis, resource allocation analysis, cost tracking and analysis, cost-effectiveness and database management/financial analysis, special access required technology application concept research/analysis.
- Total 8699

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PROJECT

C16

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
C16 FAST	2566	2465	2543	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This program focuses Army Materiel Command (AMC) resources to rapidly identify and solve Army field technical problems which enables the improvement of readiness, safety, training, and cut operations and support (O&S) costs. The Commanding General, AMC, institutionalized AMC Field Assistance in Science and Technology (FAST) in 1988 to plan for and allocate all AMC FAST program funding for projects to support CINCs and Army commanders and to operate the director's office. FAST tours of duty provide significant professional growth opportunities for the Army's scientists and engineers. Science advisers are recruited from AMC engineering centers to serve CINCs and major Army commanders worldwide and are also supported by assigned Quick Reaction Coordinators (QRCs) within each AMC engineering center. All costs associated with science advisor assignments are funded by the AMC subordinate commands that supply the science advisers for two to three year tours. FAST manages a level of effort type project with most projects recouping many times their cost in O&S cost savings.

FY 2000 Accomplishments

- 2566 - Provided continuous activity on over 100 FAST projects. Defined, tested and recommended technological solutions to urgent materiel problems identified by CINCs worldwide and prepared operational needs statements and tested results for the highest priority programs.
- Deployed Science Advisors with U.S. Task Forces as requested by CINCs.
- Provided professional growth opportunities for 17 Army senior science advisors and FAST Program tours for Army junior scientists and engineers.
- Provided professional growth opportunities for civilian personnel through the Scientists and Engineers Field Experience with Soldiers (SEFEWS) program, which gives scientists and engineers the opportunity to participate in training events in the field.

Total 2566

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PROJECT

C16**FY 2001 Planned Program**

- 2398 - Provide continuous activity on over 100 FAST projects. Define, test and recommend technological solutions to urgent materiel problems identified by CINCs worldwide and prepare operational needs statements and test results for the highest priority programs.
 - Deploy Science Advisors with U.S. Task Forces as requested by CINCs.
 - Provide professional growth opportunities for 20 Army senior science advisors and FAST Program tours for Army junior scientists and engineers.
 - Provide professional growth opportunities for civilian personnel through the Scientists and Engineers Field Experience with Soldiers (SEFEWS) program, which gives scientists and engineers the opportunity to participate in training events in the field.
 - 67 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs.
- Total 2465

FY 2002 Planned Program

- 2543 - Provide continuous activity on over 100 FAST projects. Define, test and recommend technological solutions to urgent materiel problems identified by CINCs worldwide and prepare operational needs statements and test results for the highest priority programs.
 - Deploy Science Advisors with U.S. Task Forces as requested by CINCs.
 - Provide professional growth opportunities for 17 Army senior science advisors and FAST Program tours for Army junior scientists and engineers.
 - Provide professional growth opportunities for civilian personnel through the Scientists and Engineers Field Experience with Soldiers (SEFEWS) program, which gives scientists and engineers the opportunity to participate in training events in the field.
- Total 2543