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National Science Foundation (NSF) Info

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Agency:	U.S. Office of Personnel Management
Bureau:	General Fund/Employment Service
Heading:	Salaries and Expenses
FY 2000 Appendix Page:	1067
FY 2000 Pending Request	\$ 91,584,000
Proposed Amendment:	\$ 10,650,000
Revised Request:	\$102,234,000

This request includes funding for four components of the Federal Information Technology Service program in the National Security Council/Office of Management and Budget Critical Infrastructure Protection initiative:

(1) Identification of *Centers for IT Excellence*, a consortium of colleges, universities and other organizations identified as sources for Information Technology (IT) and Information Security (IS) training for current Federal employees, would provide specified courses and programs meeting approved standards. The Centers would certify the competencies of these personnel and help them maintain their skill levels throughout their careers. The Office of Personnel Management will assist in the identification of the Centers, help develop the course materials based on the results of the IT occupational study, and help develop faculty training programs. (\$5.75 Million.)

(2) The request will fund three facets of the Scholarships for Service component of the Federal Information Technology Services. Scholarships for Service, which will be jointly implemented by the Office of Personnel Management and the National Science Foundation, will provide one or two year scholarships or fellowships for undergraduate or postgraduate study in information technology/information security in exchange for a specified length of government service. Up to 300 students will be selected in the first year. The Office of Personnel Management, with the National Science Foundation's advice, will: (1) design the overall program and develop a longitudinal evaluation model; (2) develop materials for and conduct recruitment and marketing activities; and (3) develop and administer a selection battery to help select award recipients. The National Science Foundation will administer the scholarship/fellowship component of the program. (\$2.3 million.)

(3) The Office of Personnel Management will also design and develop a high school recruitment and training initiative to target promising high school students for participation in summer work and internship programs leading to certification to Federal IT workforce standards and possible

future employment. The effort will also examine possible programs to promote computer security awareness in secondary and high school classrooms. (\$1.3 million.)

- (4) The funding request will also ensure timely completion of the IT occupational study, which will identify the number of IT security positions needed in the Government, and the training and certification requirements for those positions. This builds on the IT occupational study's component that is identifying the discrete categories of IT work performed, and the skills, knowledge and competencies required to successfully perform the work. (\$1.3 million.)

The amendment would provide funds not included in the pending FY 2000 request to conduct these activities and develop the necessary materials.

The proposal would increase FY 2000 outlays by \$15,500,000.

Agency:	National Science Foundation
Bureau:	General and Special Funds
Heading:	Salaries and Expenses
FY 2000 Budget Appendix Page:	1063
FY 2000 Pending Request:	\$149,000,000
Proposed Amendment:	\$ 1,000,000
Revised Request:	\$150,000,000

The amendment would provide funds not included in the pending FY 2000 request to cover the National Science Foundation's costs of administering the Scholarships for Service program, a component of the Federal Information Technology Services program in the National Security Council/Office of Management and Budget Critical Infrastructure Protection initiative. The National Science Foundation would: (1) administer the scholarships program; (2) provide funds in the form of grants or direct aid to students selected for the program; (3) determine award amounts; and (4) execute agreements for government service upon completion of the program.

The National Science Foundation will also provide assistance to the Office of Personnel Management on the overall design of the program and its associated longitudinal evaluation.

This proposal would increase FY 2000 outlays by \$900,000.

Agency:	National Science Foundation
Bureau:	Education and Human Resources
Heading:	General and Special Funds
FY 2000 Budget	
Appendix Page:	1064
FY 2000	
Pending Request:	\$678,000,000
Proposed Amendment:	\$ 5,200,000
Revised Request:	\$683,200,000

This amendment would provide funds not included in the pending FY 2000 request to provide up to 300 scholarships and fellowships for one or two years of undergraduate or postgraduate education in the information technology/information security disciplines. This activity is part of the Scholarships for Service program of the Federal Information Technology Service component of the NSC/OMB Critical Infrastructure initiative. Awardees would receive these funds in exchange for a commitment to work for the Federal government for a specified period upon completion of the program.

This proposal would increase FY2000 outlays by \$5,000,000.

Here is a brief status report of our budget. The House passed our appropriation on Thursday, September 9, at \$35 million less than last year and \$285 million less than the request. A major problem for us is that our request for the Information Technology for the Twenty-first century (IT²) was \$110 million less than the \$422 million requested.

Our Critical Infrastructure Protection research activities last year was funded at \$20.9 million. This would have gone to about \$24.3 million had we received full funding for IT², with planned growth to \$30.3 million in FY 04. A big problem is the lack of funding for the IT2 initiative, where many of the researchers who will train future specialists are supported.

The next action is in the Senate, where the mark-up of the VA/HUD/Independent Agencies Appropriation is scheduled for sometime after September 23. We have no specific intelligence about how that mark-up will go, other than a general sense that they are looking to do better than the House.

The accepted wisdom is that at some point the caps will be breached and additional funds will be available for the VA/HUD/Independent Agencies appropriation. We need to have Senators focus on the value of putting some of that available funds in our computer research activities to get us a close to the administration request as possible.

Below is a table outlining the activities that are funded in our Critical Infrastructure Protection program.

New estimates <i>with</i> PITAC funding								
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Theme	Directorate	FY98	FY99	FY00	FY01	FY02	FY03	FY04
Security of Systems	CISE	0.77	0.80	0.91	0.96	1.00	1.04	1.07
Reliability of Systems	CISE	4.33	4.33	5.07	5.54	5.98	6.36	6.71
Reliable Communication Sysys.	CISE	3.80	3.80	4.44	4.86	5.24	5.58	5.88
Secure Communication Sysys.	CISE	0.49	0.49	0.53	0.56	0.59	0.61	0.63
Verific., Validation, & Assurance	CISE	1.46	1.46	1.70	1.86	2.01	2.14	2.26
Verification Technologies	CISE	0.57	1.03	1.20	1.31	1.42	1.51	1.59
Encryption Technologies	CISE	0.14	0.41	0.43	0.44	0.45	0.46	0.47
Syst-level Security	CISE	0.21	0.41	0.44	0.46	0.47	0.49	0.50
Network Mangmt	CISE	1.33	1.54	1.97	2.11	2.24	2.36	2.46
Distrib. & Mobile DB Sysys.	CISE	2.05	2.05	2.40	2.63	2.83	3.02	3.18
Electronic Commerce Research	CISE	0.31	0.31	0.32	0.33	0.34	0.34	0.35
Surveill. & Remediation Robotics	CISE	-	0.51	0.52	0.53	0.53	0.54	0.54
Energy Processing Sysys.	ENG	3.05	3.05	3.10	3.13	3.16	3.19	3.21
Risk Mngmt., Modeling, Simulation	SBE	0.54	0.63	0.67	0.69	0.71	0.72	0.74
NSF's Protection of Computer Resources	N/A	0.57	0.60	0.63	0.67	0.70	0.73	0.76
TOTAL	Total	19.62	21.41	24.33	26.08	27.66	29.08	30.36