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The National Science Foundation's Tokyo Regional Office periodically reports on developments in Japan that are related to the Foundation's mission. It also provides occasional reports on developments in other East Asian countries.

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S&T-related Budget for JFY2006

- Quick Summary -

Following the budget requests submitted by the agencies/ministries at the end of August 2005, CSTP (Council for the Science and Technology Policy) reviewed and ranked the requests (<http://www.nsftokyo.org/rm05-05.html>). Based on the rating, the Ministry of Finance (MOF) reviewed the requests and decided the almost-final figures for JFY2006 budget, and CSTP made it public on December 27, 2005. Very small modifications will be made toward the end of March 2006. The total S&T-related budget for JFY2005 is Yen 3,573.3 billion (ca. \$31.3 billion @Yen 114/\$), a decrease of 0.1 percent over the previous year's S&T-related budget. Of this amount, the S&T Promotion budget was increased to Yen 1,331.2 billion and it was an increase by 1.1 percent from the previous year. Under the circumstances that the non-S&T budgets will

be decreased by 1.9 percent in average, this is a big increase, which epitomizes the government's high expectation in the future of S&T. Overall, a decrease by 0.1 percent means that the S&T-related budgets will have the same level of funding in JFY2006 as in the previous year.

Table 1 shows the S&T-related budget by ministry/agency for JFY2006, together with the figures for JFY2005 and increase/decrease percentages. Also, Table 2 shows the final figure for each project. The fact that the budgets for S-ranked projects increased by 15.7 percent, A-ranked projects by 1.9 percent, B-ranked by -2.6 percent and C-ranked by -30.3 percent shows that the CSTP-rating was well reflected in the review process by MOF.

Another feature of the S&T-related budgets for JFY2006 is that CSTP has rated the projects to meet the Third S&T Basic Plan as it will be the first year of the Plan (JFY2006-2010). While the Plan is still being worked out for details and will be finalized in March 2006, CSTP released a draft of the Plan and its summary will be reported in the next TRM. To be noteworthy is that it was confirmed on December 27, 2005 that the target S&T-related budget amount for the next five years is Yen 25 trillion.

Table 1.

S&T-related Budget by Ministry/Agency - JFY2006

(Unit: Billion Yen)

	S&T-related Budgets 2005 (Yen Billion)	S&T-related Budgets 2006 (Yen Billion)	Increase/Decrease (%)
MEXT: Ministry of Education, Culture, Sports, Science and Technology	2,305.6	2,303.7	-0.1
METI: Ministry of Economy, Trade and Industry	590.7	558.1	-5.5
Defense Agency	144.6	183.6	27.0
MHLW: Ministry of Health, Labor, and	129.1	130.8	1.3

Welfare			
MAFF: Ministry of Agriculture, Forests and Fisheries	119.1	120.5	1.1
MLIF: Ministry of Land, Infrastructure and Transportation	83.0	78.2	-5.7
MIC: Ministry of Internal Affairs and Communications	82.8	74.9	-9.5
Cabinet Secretariat	62.5	61.2	-2.0
MOE: Ministry of Environment	29.2	28.7	-1.6
Cabinet Office	13.7	15.8	15.6
MOFA: Ministry of Foreign Affairs	10.9	11.0	0.5
MOJ: Ministry of Justice	2.2	2.1	-3.7
Police Agency	2.2	2.1	-1.1
Diet	1.0	1.1	4.2
TOTAL:	3,577.9	3,573.3	-0.1

Table 2. MOF-approved Budgets for CSTP-ranked S&T projects – JFY2006

		Ministry	JFY2006 Budget	JFY2006 Request	JFY2005 Budget
	PROJECT		Yen Million	Yen Million	Yen Million
BASIC SCIENCE (UNIVERSITIES)					
A	COE Program in the 21st Century	MEXT	37,800	40,163	38,171
S	Private University Education and Research (for those items that require review, e.g.,	MEXT	48,822	54,348	54,016

	research funds)				
B	Private University Education and Research (for those items that do not require review, e.g., facilities, items that can be counted by the number of students or faculty members)	MEXT	117,001	117,664	114,797
BASIC SCIENCE (PHYSICS/ASTRONOMY)					
A	ALMA	MEXT	2,924	2,924	2,817
A	Establishment of operation system of SPring-8	MEXT	7,053	7,340	7,567
A	High intensity proton accelerator for Nutrino, Material/Life Science experimental use	MEXT	24,116	24,536	20,620
B	High intensity proton accelerator for other uses than above	MEXT	5,887	6,486	4447
LIFE SCIENCE					
	GENOME				
B	Projects for materializing tailor-made medical care	MEXT	3,130	3,348	3,164
A	Genome network project	MEXT	2,310	2,465	2,315
B	Protein 3000 project	MEXT	8,604	9,244	9,771
S	Protein analyses basic technology development	MEXT	1,150	1,150	0
C	Comparative genome analyses project	MEXT	0	124	0
S	Comprehensive database project	MEXT	290	300	0
B	Pharmacogenomics [Competitive funds]	MHLW	480	677	564
C	Bio-information transmitting molecule analyses [Competitive funds]	MHLW	0	1,100	0
C	Toxicogenomics [partly competitive funds]	MHLW	805	1,381	1,150
B	Disease-related protein analyses	MHLW	562	662	661
A	Agriculture/forests/fisheries-related comprehensive genome database	MAFF	275	463	0
	Regenerative medical care/Genetic treatment				
A	Materialization of regenerative medical care	MEXT	1,077	1,112	1,110

B	Human genome/regenerative medical care (regenerative medical care) [Competitive funds]	MHLW	837	1,225	985
B	Human genome/regenerative medical care (Human genome/genetic treatment) [Partly competitive funds]	MEXT	2,012	2,167	962
	Cancer, Allergy/immunity disease, life-style caused disease				
A	Small-scale heavy ion radiation facilities	MEXT	1,025	1,025	0
B	Cancer translational research	MEXT	900	962	960
A	Comprehensive research on life-style caused diseases, including cardiovascular diseases [Competitive funds]	MHLW	2,385	2,586	2,254
S	Third anti-cancer comprehensive strategic research [Competitive funds]	MHLW	5,528	6,060	4,865
A	Cancer research grants	MHLW	1,803	1,850	1,850
B	Comprehensive research on longevity science	MHLW	1,582	2,155	2,077
A	Hard-to-cure diseases research [Competitive funds]	NHLW	2,398	2,563	2,239
A	Prevention/treatment of immune allergy diseases [Competitive funds]	MHLW	1,220	1,589	1,140
A	Comprehensive research on children in families (newly expanded research) [Competitive funds]	MHLW	210	400	0
B	Comprehensive research on children in families (continuing research) [Competitive funds]	MHLW	448	645	645
	Mental, Brain Research				
A	Mental health science research [Competitive funds]	MHLW	2,223	2,287	2,037
	New/Recurring Infectious Diseases, Medical Safety				
A	Center for studying new/recurring infectious diseases [Competitive funds]	MEXT	2,600	2,700	2,299

C	Promotion of international cooperation for social security/strengthening network for managing international health crisis [Partly competitive funds]	MHLW	77	134	110
S	AIDS/hepatitis/new and recurring infectious diseases [Competitive funds]	MHLW	5,432	5,647	4,527
A	Comprehensive research on policy-oriented pharmaceuticals [Competitive funds]	MHLW	2,139	2,528	1,997
B	Comprehensive research on medical safety/medical technology evaluation [Competitive funds]	MHLW	1,317	1,878	1,432
	Food supply. Food security/safety				
A	Risk analyses of food and pharmaceutical products [Competitive funds]	MHLW	1,448	1,695	1,352
A	Development of Japanese-style technology for life stock feed	MAFF	545	900	0
A	Development of technology for stable supply of low-cost and good-quality agricultural products	MAFF	508	800	0
A	Advancing agriculture/forests/fisheries research by using frontier technologies [Competitive funds]	MAFF	4,872	7,816	3,823
B	Designated experimental research	MAFF	1,003	1,050	1,068
C	Agriculture/Forests/Fisheries: Research on food in industries	MAFF	988	2,927	1,425
B	Agro-bio research and industrialization	MAFF	962	2,832	982
B	Highly functional food and safety/reliability of food	MAFF	844	1,628	934
	Risk evaluation of Pharmaceuticals and foods				
B	Pharmaceuticals/medical equipment regulatory science [Competitive funds]	MHLW	1,086	1,466	1,278
S	Safety for recombinant DNA and other frontier technologies	MAFF	596	599	523
	Production of Useful Materials and Their Relation to Environment				

B	Analyses of soil bacteria	MAFF	141	200	0
	Interdisciplinary Area and Medical Equipment				
B	Molecular imaging research [Competitive funds]	MEXT	1,001	1,165	1,147
B	Analyses of body functions and development of supporting equipment [partly competitive funds]	MHLW	946	1,318	1,113
	Treatment/Clinical Research				
B	Clinical application of basic research results [Competitive funds]	MHLW	854	1,191	1,004
B	Clinical research for children's diseases [Competitive funds]	MHLW	159	315	223
A	Promotion of clinical experiments [Competitive funds]	MHLW	1,180	1,514	1,082
A	Establishment of infrastructure for clinical research [Competitive funds]	MHLW	1,081	1,081	0
	Bio Genetic Resources				
A	National Bio Resource Project	MEXT	1,630	1,670	1,668
INFORMATION TECHNOLOGY					
	Ubiquitous/Electronic Tag				
A	R&D on ubiquitous network	MIC	2,098	2,400	2,608
C	Information technology for ubiquitous network society	MIC	0	600	330
B	Electronic tag technology development	METI	425	500	Part of 3,100
A	Identification experiment for electronic tag	METI	523	550	Part of 3,100
	Network				
A	Next-generation backbone	MIC	1,799	2,100	2,000
B	Advanced use of e-life	MIC	125	250	0
A	Advanced joint use of electric wave in mobile communication system	MIC	3,426	Part of 16,418	3,254
A	Shift of wireless system to yet-to-be-used frequency areas	MIC	2,150	Part of 16,418	2,058

B	Radar in narrow band areas	MIC	611	Part of 16,418	781
B	Good use of FPU frequency	MIC	0	Part of 16,418	0
B	Joint use of frequency via satellite communication system	MIC	368	Part of 16,418	0
B	Wavelength Division Multiplexing Satellite communication technology	MIC	170	Part of 16,418	0
A	Infrastructure of e-life	MIC	1,816	1,950	1,500
	Information Security				
S	Prevention of cyber attacks, including spam mail and phishing	MIC	982	1,250	0
A	Detection/recovery/prevention of route hijacking	MIC	200	300	0
B	Autonomous control of electronic data	MIC	0	180	0
B	Detection of super high-speed/high-precision cyber attack	MIC	0	120	0
A	Early-stage caution of computer security	METI	1,332	1,880	882
B	Industrial and individual security countermeasures	METI	1,051	1,903	920
	Software				
B	e-society software	MEXT	905	1,034	1,034
	Robot				
C	Elucidation of high-level dialogue mechanism	MEXT	0	158	0
S	Commercialization of service robots	METI	420	420	0
	Large-scale/High-speed calculation				
A	R&D for future supercomputing	MEXT	1,308	1,391	1,454
S	Innovative simulation software	MEXT	1,160	1,160	1,160
	Electric Device				
B	Materialization of world advanced IT nation	MEXT	1,148	1,420	1,596
B	Next-generation high-speed communication equipment	METI	2,095	2,619	2,619
	Others				
A	Strategic information communication	MIC	3,209	3,400	3,181

	[Competitive funds]				
A	Fostering of leading IT specialists	MEXT	630	1,000	0
B	Personnel fostering for advanced simulation by industry/university/government	MEXT	0	200	0
C	IT basic technology	METI	0	200	0
B	Comprehensive research information infrastructure to promote industry/university/government cooperation	MAFF	0	462	0
ENVIRONMENT					
Sustainable society, Compatibility of environment and economy					
B	Coexistence of man/nature/earth: Japan Model	MEXT	2,026	2,371	2,097
C	Coexistence of man/nature/earth: Simulation of water environment	MEXT	984	1,196	1,216
B	Risk analyses of food and pharmaceutical products [Competitive funds]	MHLW	1,586	2,263	1,866
A	Evaluation of global warming effects on agriculture/forests/fisheries	MAFF	462	597	402
B	Underground confinement of CO2	METI	1,200	1,380	950
B	CO2 molecular gate membrane	METI	102	120	0
C	Recycling technologies for platinum group metals	METI	0	200	0
A	Recovering tideland along major cities' coastal areas	MLIT	13	15	26
S	Evaluation and countermeasures for heat environment in urban areas	MILT	157	158	170
C	Effect of soil/underground water pollution to water areas	MILT	0	40	0.1
C	Save-energy type cities, using already existing urban facilities	MLIT	0	244	0
A	Research grant for waste disposal [Competitive funds]	ME	1,300	1,650	1,150
Biomass					

A	Safety measures to cope with new technologies and new materials	MIC	85	90	76
A	Bio-recycle of agriculture/forests/fisheries	MAFF	1,236	1,395	1,395
A	Countermeasures for global warming [Competitive funds]	ME	Part of 2,716	Part of 2,714	Part of 2,676
	Earth Observation				
S	Comprehensive earth observation/monitoring system: data compilation/analyses system	MEXT	354	600	0
A	Comprehensive earth observation/monitoring system: green house effect gas observation satellite (GOSAT)	MEXT	5,427	5,427	2,801
B	Comprehensive earth observation/monitoring system: Precipitation observation (GPM/DPR)	MEXT	781	1,501	754
B	Comprehensive earth observation/monitoring system: Global environment change observation mission (GCOM)	MEXT	677	1,495	Out of operational funds from the Gov. funds 592
B	Global observation system [Competitive funds]	MEXT	849	1,219	1,017
A	Antarctic observation	MEXT	10,097	13,393	7,933
S	Global change monitoring/evaluation network	ME	300	400	0
	Others				
B	Prediction and reduction of damage to wild animals by agriculture/forests/fisheries businesses	MAFF	0	132	0
B	Research cooperation to developing countries	METI	1,415	2,008	1,484
S	Comprehensive promotion of global environment research [Competitive funds]	ME	3,256	4,326	3,015
A	Environment technology development [Competitive funds]	ME	881	1,369	815
B	Experimental research, including pollution	ME	1,048	1,233	1,233

	prevention				
NANOTECHNOLOGY/MATERIALS					
Materials					
A	Nanotech fire-protection clothes for fire fighting	MIC	13	21	0
A	Evaluation of new structure buildings, using innovative structural materials, including highly intensive steel	MLIT	131	132	139
B	Building of new structure system, using innovative structural materials	MLIT	200	200	0
Interdisciplinary Area					
A	New interdisciplinary areas, using nanotechnology/materials (new budgets) [Competitive funds]	MEXT	558	741	0
B	New interdisciplinary areas, using nanotechnology/materials (Continuing budgets) [Competitive funds]	MEXT	1,450	1,450	1,450
Measurement/Processing					
B	Nanotechnology Center	MHLW	2,034	2,192	2,393
Nano Biotechnology					
S	Nano medicine [Partly competitive funds]		1,646	2,153	1,416
ENERGY					
Nuclear Energy					
A	ITER	MEXT	1,401	2,768	2,546
B	Nuclear energy system [Competitive funds]	MEXT	6,267	12,524	12,145
B	Nuclear energy experiments	MEXT	1,273	1,439	1,463
C	Innovative nuclear energy system	MEXT	1,301	2,980	4,232
A	Full MOX core facilities	METI	3,800	4,000	3,980
A	Centrifuge uranium condensation	METI	2,907	3,060	1,409
B	Innovative technologies for commercializing nuclear energy [Competitive funds]	METI	1,900	2,183	2,183
C	Quick maintenance of nuclear energy generation facilities	METI	0	515	0
A	Investigation of disposal of radioactive wastes in soil	METI	3,183	3,386	3,682

	Use of Hydrogen/Fuel Cell				
A	Verification of fuel cell system	METI	1,306	1,375	0
S	Frontier science for fuel cell	METI	1,200	1,200	1,000
B	Countermeasures for global warming [Competitive funds]	ME	Part of 2,716	Part of 2,714	Part of 2,676
	Others				
S	Save-energy and environment-friendly solar energy generation system	METI	250	250	0
C	Advanced technology development, including oil refinement	METI	2,900	3,400	3,800
B	Advanced use of future-type fuel	METI	1,224	1,360	1,360
A	Oil fuel: next-generation environment countermeasures	METI	1,283	1,350	1,420
B	Oil refinement: merging advanced functions	METI	5,250	6,000	0
A	Integrated coal gasification combined cycle	METI	7,000	7,491	8,191
B	Environment-friendly fuel conversion technology	METI	2,025	2,200	3,332
B	Methane hydrate development	METI	3,981	5,000	3,981
	MANUFACTURING TECHNOLOGY				
	None that is eligible to be rated				
	SOCIAL INFRASTRUCTURE				
	Terror Attack				
B	Damage simulation program	CS	46	105	46
A	Detection of explosives used for international terror attack	PA	30	30	33
A	Detection of Bio terror attack	PA	50	50	34
A	Countermeasures for terror attack to transportation system	MLIT	18	20	9
	Crime				
S	3-dimensional face image	PA	18	18	0
B	New method for identifying speakers	PA	31	35	0
A	Analyses of linkage of series of crimes	PA	8	8	0
A	Advanced profiling system by DNA analyses	PA	29	29	30
B	New detection guidelines for crimes by foreigners in Japan	PA	19	22	24

B	Pill-type drug profiling	PA	11	13	43
C	Prevention of juvenile delinquencies and support to the victims	PA	14	20	23
	Safety Countermeasures/Fire Fighting				
C	Cognitive science on drivers' information processing capabilities	PA	18	25	20
B	Fire fighting/disaster prevention science [Competitive funds]	PA	350	390	370
B	Cost reduction/safety security of airport by preventive maintenance	MLIT	14	17	16
	Earthquake Disaster				
S	Earthquake/Tsunami observation/monitoring system	MEXT	1,842	2,583	0
B	Crust movement monitoring, using GPS	MLIT	0	34	0
	Aviation				
B	Structural materials for next-generation airplanes	METI	850	1,000	850
	Maintenance/Management				
A	Appropriate management of sewer pipes	MLIT	25	44	0
	FRONTIER				
	Quazi-Zenith Satellite System				
B	Quazi-zenith satellite system	MIC	1,203	1,670	2,393
B	Next-generation satellite project	METI	1,583	1,720	1,537
B	High-precision measurement by quazi-zenith satellite	MLIT	362	362	368
	International Space Station				
B	International space station plan: JEM, HTV	MEXT	24,721	21,589	21,585
C	International space station plan: Centrifuge	MEXT	1,600	7,798	11,691
	Others				
A	Remote sensing technology	METI	1,821	2,020	2,006
	HUMAN LITERATURE/SOCIAL SCIENCE				
A	Comprehensive promotion of local area research	MEXT	259	371	0
	COMPETITIVE RESEARCH (ONLY THOSE NOT CITED ON OTHER CATEGORIES)				

S	Grants-in-Aid for Scientific Research: Fostering young researchers [Competitive funds]	MEXT	132,390	137,510	130,990
A	Grants-in-Aid for Scientific Research: Any other than "Fostering young researchers" [Competitive funds]	MEXT	57,110	57,490	57,010
S	Coordination funds for promoting S&T: New programs [Competitive funds]	MEXT	9,000	9,000	0
A	Coordination funds for promoting S&T: Continuing programs [Competitive funds]	MEXT	30,800	31,960	39,500
B	Administrative policy research: comprehensive study on policy science [Competitive funds]	MHLW	588	779	686
FOSTERING OF S&T PERSONNEL					
S	Science education facilities	MEXT	1,298	1,400	1,298
A	"Attractive graduate school education" initiative	MEXT	4,200	4,444	3,000
A	Career paths for S&T personnel: establishment of models by related organizations	MEXT	370	367	0
C	Career paths for S&T personnel: information to be provided by the government	MEXT	0	379	0
B	Strengthening provision of S&T information to other Asian countries	MEXT	0	109	0
A	Fostering core staff for industry/university/government cooperation	METI	2,836	3,112	2,374
INDUSTRY/UNIVERSITY/GOVERNMENT COOPERATION					
B	Advancement of industry/university/government cooperation	MEXT	1,004	1,150	1,149
B	Strategic use of frontier large-scale research facilities	MEXT	1,106	1,307	1,300

A	Support for challenges by medium- and small-size companies/venture companies	METI	2,962	3,318	3,843
PROMOTION OF LOCAL S&T					
S	Independent administrative organization: Okinawa Institute of S&T Promotion Corporation	CAO	3,530	6,016	605
S	Intellectual cluster formation: Expansion and matching of industry/university/government cooperation in urban areas	MEXT	2,022	2,600	0
B	Intellectual cluster formation: Continuing programs and industry/university/government cooperation in urban areas	MEXT	11,800	13,700	13,600
A	New consortium in local areas: continuing programs	MEXT	13,586	13,586	13,586
B	New consortium in local areas: expansion	MEXT	2,706	8,660	0
B	New industry creation in local areas	METI	5,144	6,981	6,381
B	New business-support network in expanded areas	METI	1,931	1,931	1,931
UNIVERSITY FACILITIES					
S	Improvement of university facilities: S&T-related facilities	MEXT	27,725	16,857	16,146
A	Improvement of university facilities: establishment of excellent research facilities	MEXT	8,253	4,362	4,690
B	Improvement of university facilities: university-attached hospitals that runs frontier medical care	MEXT	5,552	24,016	24,200
INTELLECTUAL PROPERTY RIGHT					
B	Standardization in information technology area	MIC	76	90	90
A	University intellectual property centers	MEXT	2,585	2,650	2,649
A	Promotion of university-born technology transfer	METI	612	700	894
A	Strategies for international standardization	METI	1,765	2,009	1,695

activities				
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[Reference] New large-scale projects that were decided to be funded by preliminary evaluation and not by CSTP's rating

PROJECT	Ministry	JFY2006 Budget	JFY2006 Request	JFY2005 Budget
		Yen Million	Yen Million	Yen Million
Basic Research				
X-ray free-electron laser	MEXT	2,306	3,293	0
Information Technology				
Advanced supercomputer	MEXT	3,547	4,051	0
Manufacturing Technology				
Advancement of strategic basic technologies	METI	6,401	9,200	0

Abbreviations:

MEXT: Ministry of Education, Culture, Sports, Science and Technology

METI: Ministry of Economy, Trade and Industry

MAFF: Ministry of Agriculture, Forests and Fisheries

MLIT: Ministry of Land, Infrastructure and Transportation

MHLW: Ministry of Health, Labor and Welfare

MOE: Ministry of Environment

MIC: Ministry of Internal Affairs and Communications

CAO: Cabinet Office

PA: Police Agency

CS: Cabinet Secretariat