

Vote 31

Science and Technology

Adjusted budget summary

R thousand	2008/09			
	Main appropriation	Adjusted appropriation	Decrease	Increase
Amount to be appropriated	3 703 972	3 721 715	-	17 743
<i>of which:</i>				
Current payments	226 629	242 852	-	16 223
Transfers and subsidies	3 475 082	3 476 728	-	1 646
Payments for capital assets	2 261	2 135	(126)	-
Executive authority	Minister of Science and Technology			
Accounting officer	Director-General of Science and Technology			

Aim

The Department of Science and Technology seeks to realise the full potential of science and technology in social and economic development, through the development of human resources, research and innovation.

Mid-year performance status

Indicators	Annual performance	
	Projected for 2008/09 as published in the 2008 ENE	Achieved in the first six months of 2008/09 (April to September)
As published in the 2008 ENE		
Amount leveraged from international sources	R189m	R74m
Number of new international bilateral projects	86	162
Number of learners who attend the science week awareness programme	190 000	194 952
Number of students on the innovative bursary programme	415	0
Number of interns supported	100	0
Total number of centres of excellence established	8	7
Total number of research chairs established	72	0
Number of PhDs and postdoctoral fellowships supported at science councils and higher education institutions	155	0
Number of joint science and technology project activities between the Department of Science and Technology and other departments	14	6
Number of flagship projects supporting strategic areas of research and development	13	11

Bursaries, internships, research chairs, and PhDs and postdoctoral fellowships will be awarded at the end of the year.

Adjusted Estimates of National Expenditure 2008

Table 31.1: Adjusted estimates

Programme	2008/09						
	Main appropriation	Additional appropriation				Total additional appropriation	Adjusted appropriation
		Roll-overs	Unforeseeable /unavoidable	Virement	Other adjustments		
R thousand							
1. Administration	105 505	-	-	95	-	95	105 600
2. Research, Development and Innovation	873 097	-	-	(95)	-	(95)	873 002
3. International Co-operation and Resources	129 315	-	-	-	1 523	1 523	130 838
4. Human Capital and Knowledge Systems	1 449 024	-	-	-	3 361	3 361	1 452 385
5. Socio-Economic Partnerships	1 147 031	-	-	-	12 859	12 859	1 159 890
Departmental Total	3 703 972	-	-	-	17 743	17 743	3 721 715
Economic classification							
Current payments	226 629	-	-	16 223	-	16 223	242 852
Compensation of employees	130 170	-	-	5 719	-	5 719	135 889
Goods and services	96 459	-	-	10 504	-	10 504	106 963
Transfers and subsidies	3 475 082	-	-	(16 097)	17 743	1 646	3 476 728
Departmental agencies and accounts	1 927 672	-	-	(12 113)	(4 927)	(17 040)	1 910 632
Universities and technikons	10 000	-	-	-	8 309	8 309	18 309
Public corporations and private enterprises	550 861	-	-	3 450	324 759	328 209	879 070
Non-profit institutions	986 549	-	-	(7 849)	(310 398)	(318 247)	668 302
Households	-	-	-	415	-	415	415
Payments for capital assets	2 261	-	-	(126)	-	(126)	2 135
Machinery and equipment	2 261	-	-	(126)	-	(126)	2 135
Total	3 703 972	-	-	-	17 743	17 743	3 721 715

Details of adjustments to Estimates of National Expenditure 2008

Virements

Table 31.2: Virements

Programme / Economic classification	R thousand		Details and motivation
	From	To	
1. Administration	(2 680)	2 775	
Current payments	(2 554)	1 643	
Compensation of employees	-	1 643	R1.548 million from goods and services in this programme to create 4 posts for internal audit functions instead of outsourcing (R900 000); a PA post in the COO's office (173 000), 2 new posts in the strategy and planning unit (R384 000), and a new level 8 post in the deputy minister's office (R91 000)
Goods and services	(2 554)	-	R95 000 from compensation of employees in programme 2 to upgrade the legal services manager post to a general manager post R126 000 from machinery and equipment in this programme for consultants
Transfers and Subsidies	-	1 132	Savings on consultants:
Non-profit institutions	-	920	R1.548 million to compensation of employees in this programme
Households	-	212	R920 000 to non-profit institutions in this programme R212 000 to households in this programme
Payments for capital assets	(126)	-	
Machinery and equipment	(126)	-	Budgeted capital assets not purchased: To goods and services in this programme

Table 31.2: Virements (continued)

Programme / Economic classification	R thousand		Details and motivation
	From	To	
2. Research, Development and Innovation	(17 259)	17 164	
Current payments	-	17 048	
Compensation of employees	-	731	R625 000 from non-profit institutions in this programme to create a general manager post in the Hydrogen and Energy subprogramme R201 000 from goods and services in the Hydrogen and Energy subprogramme of this programme to create a manager post in the same subprogramme R95 000 moved to Programme 1 compensation of employees for the upgrade the legal services manager post to a general manager post
Goods and services	-	16 317	R8.269 million from non-profit institutions in this programme for consultants for the Astronomy Act Regulations (R50 000); hosting the SKA African partner countries forums and discussions on harnessing the economic benefits of the SA SKA Bid (R214 000); newsletters, user requirements, CNES workshops, and literature for the SKA African partner countries forums (R682 000); strategy launch, Howteq evaluation and Sunspace audits (R800 000); implementation of innovation projects and advisory services in the Department of Science and Technology instead of in the Innovation Fund (R4.5 million); NBAC projects funded via service providers (R1.5 million) and expenditure relating to the launching of the HFCT Strategy (R512 740) R8.365 million moved from Departmental Agencies and Accounts for the migration of the Innovation Fund to the Technology Innovation Agency processes Savings on venues and facilities: R201 000 to compensation of employees in this programme R116 000 to households in this programme
Transfers and Subsidies	(17 259)	116	
Departmental agencies and accounts	(8 990)	-	R8.365 million shifted from the Innovation Fund transfer to Goods and Services as this was budgeted for the migration of TIA processes as being a transfer, but now it is anticipated that these processes will be driven by the DST, therefore moved to Goods and Services R625 000 shifted to Compensation of employees for the creation of a general manager post to head this process
Non-profit institutions	(8 269)	-	R1. 010 million from Space Science and R736 000 from SKA will be reprioritized to cover related expenditure under goods and services that was originally budgeted for as transfers R512 740 from the Hydrogen Strategy will be moved to cover operational costs relating to the launching of the HFCT Strategy expensed under goods and services R4.5 million from the Innovation Projects will be moved to goods and services due to the implementation of the Innovation Projects and advisory services to be handled within the Department of Science and Technology as opposed to implementation of the same from the Innovation Fund R1.5 million from Health Innovation will be moved to goods and services to cover NBAC projects funded via service providers
Households	-	116	Shifted from Goods and Services to cover gifts and donations expensed here
3. International Co-operation and Resources	(6 773)	6 773	
Current payments	(6 773)	3 294	
Compensation of employees	-	3 294	R3 million from goods and services in this programme for foreign allowances for science and technology attaches R294 000 from goods and services in the Bilateral Cooperation subprogramme to create a manager post in the same subprogramme
Goods and services	(6 773)	-	R3 million to compensation of employees in this programme (originally budgeted under Goods and Services) Savings on travel and subsistence: R294 000 to compensation of employees in this programme R29 000 to households in this programme Decision not to participate in the SA-China 10-Year celebration expo: R3.45 million to public corporations and private enterprises
Transfers and Subsidies	-	3 479	
Public corporations and private enterprises	-	3 450	R3.45 million shifted from Goods and Services which will be used for strategic international collaboration projects.
Households	-	29	From goods and services in this programme for gifts and donations expensed here

Table 31.2: Virements (continued)

Programme / Economic classification	R thousand		Details and motivation
	From	To	
4. Human Capital and Knowledge Systems	(1 000)	1 000	
Current payments	-	942	
Compensation of employees	-	51	From goods and services in this programme for upgrading a post
Goods and services	-	891	R1 million from non-profit institutions in this programme for establishing the Nano Advisory Board, the Nano Ethics and Standards Committee and the Infrastructure Advisory Board (R500 000) and for operational expenditure for the Indigenous Knowledge Systems Advisory Ministerial Committee
			Savings on catering: R51 00 to compensation of employees in this programme R58 000 to households in this programme
Transfers and Subsidies	(1 000)	58	
Departmental agencies and accounts	(500)	-	- Savings of R500 000 within the RDI transfers due to contractual arrangements have been reprioritised to goods and services for the establishment of a Nano Advisory Board, Nano ethics & Standards Committee and Infrastructure Advisory Board
Non-profit institutions	(500)	-	- R500 000 shifted from IKS transfers relating to operational expenditure wrt the Indigenous Knowledge Systems for expenses relating to the Advisory Ministerial Committee
Households	-	58	From goods and services in this programme for gifts and donations
5. Socio-Economic Partnerships	(2 623)	2 623	
Current payments	-	2 623	
Goods and services	-	2 623	From departmental agencies and accounts in this programme for consultants to develop a detailed foundry industry development programme that supports the competitive supplier development programme
Transfers and Subsidies	(2 623)	-	
Departmental agencies and accounts	(2 623)	-	- Funding originally set aside to support the development of a detailed foundry industry development programme that supports the Competitive Supplier Development Programme (CSDP). In terms of the services that will now be required, R2.623 million will be required to contract commercial consultants to develop detailed business plans and therefore this amount will be managed as Professional and Special Services
Total for Vote	(30 335)	30 335	

Other adjustments – R17.743 million

Adjustments due to significant and unforeseeable economic and financial events

Additional funding of R19.743 million has been allocated to cover costs related to the higher than budgeted wage increase made by the Minister for Public Service and Administration.

Programme 3: International Co-operation and Resources

R1.523 million for the Africa Institute of South Africa

Programme 4: Human Capital and Knowledge Systems

R3.361 million for the National Research Foundation

Programme 5: Socio-Economic Partnerships

R6.033 million for the Human Science Research Foundation

R8.826 million for the Council for Scientific and Industrial Research

Funds shifted between votes or to follow the transfer of functions in terms of section 42 of the PFMA

Programme 5: Socio-Economic Partnerships

R2 million will be transferred to the Department of Public Enterprise to support the development of a detailed foundry industry development programme that supports the competitive supplier development programme.

Gifts, donations and sponsorships – R415 000

The department made gifts to various foreign visitors and delegations totalling R415 000. None of the transactions exceeded R100 000.

Expenditure 2007/08 and preliminary expenditure 2008/09

Table 31.3: Expenditure trends

Programme	2007/08					2008/09		
	Expenditure outcome					Preliminary expenditure		
R thousand	Adjusted appropriation	Apr 2007 - Sep 2007	Apr 07 – Sep 07 % of adjusted appropriation	Apr 2007 - Mar 2008	Apr 07 – Mar 08 % of adjusted appropriation	Adjusted appropriation	Apr 2008 - Sep 2008	Apr 08 – Sep 08 % of adjusted appropriation
1. Administration	115 062	42 911	37.3	113 390	98.5	105 600	53 224	50.4
2. Research, Development and Innovation	541 301	171 356	31.7	531 444	98.2	873 002	385 067	44.1
3. International Co-operation and Resources	103 776	52 922	51.0	99 433	95.8	130 838	60 832	46.5
4. Human Capital and Knowledge Systems	1 252 079	643 585	51.4	1 272 583	101.6	1 452 385	879 518	60.6
5. Socio-Economic Partnerships	1 132 011	620 513	54.8	1 110 430	98.1	1 159 890	690 488	59.5
Total	3 144 229	1 531 287	48.7	3 127 280	9.9	3 721 715	2 069 129	55.6
Economic classification								
Current payments	246 934	91 104	36.9	211 000	85.4	242 852	116 391	47.9
Compensation of employees	114 861	49 629	43.2	104 075	90.6	135 889	70 818	52.1
Goods and services	132 059	41 461	31.4	106 843	80.9	106 963	45 573	42.6
Financial transactions in assets and liabilities	14	14	100.0	82	585.7	-	-	-
Transfers and subsidies	2 894 611	1 438 528	49.7	2 908 359	100.5	3 476 728	1 951 600	56.1
Departmental agencies and accounts	1 616 012	738 221	45.7	1 516 928	93.9	1 910 632	992 882	52.0
Universities and technikons	15 033	15 533	103.3	45 817	304.8	18 309	17 013	92.9
Public corporations and private enterprises	593 534	602 128	101.4	1 023 212	172.4	879 070	698 751	79.5
Non-profit institutions	669 386	82 093	12.3	322 215	48.1	668 302	242 032	36.2
Households	646	553	85.6	187	28.9	415	922	222.2
Payments for capital assets	2 684	1 655	61.7	7 921	295.1	2 135	1 138	53.3
Machinery and equipment	2 684	1 655	61.7	7 921	295.1	2 135	1 138	53.3
Total	3 144 229	1 531 287	48.7	3 127 280	99.5	3 721 715	2 069 129	55.6

Expenditure in the first six months of 2008/09 was R2.069 billion, or 55.6 per cent of the adjusted appropriation of R3.721 billion for the year as a whole. Expenditure in the first six months of 2008/09 increased by R537.8 million, or 35.1 per cent compared to spending in the first six months of 2007/08 which amounted to R1.531 billion, or 48.7 per cent of the 2007/08 adjusted appropriation.

The main increases compared to 2007/08 are due to transfer payments being disbursed earlier in the current financial year when compared to the previous year.

Expenditure for 2007/08 was 99.5 per cent of the adjusted appropriation for that year.

Departmental receipts

Table 31.4: Receipts

R thousand	2008/09			
	Budget estimate	Adjusted estimate	Actual receipts Apr 08 - Sep 08	% of Adjusted estimate
Departmental receipts				
Sales of goods and services other than capital assets	61	25	13	52.0
Interest, dividends and rent on land	-	6	5	83.3
Financial transactions in assets and liabilities	9	75	41	54.7
Total	70	106	59	55.7

Actual departmental revenue collections for the first six months of 2008/09 were R59 000 or 55.7 per cent of the adjusted estimate of R106 000.

Changes to transfers and subsidies, and conditional grants

Table 31.5: Summary of changes to transfers and subsidies per programme

R thousands	2008/09						Adjusted appropriation
	Main appropriation	Additional Appropriation				Total additional appropriation	
		Roll-overs	Unforeseeable/unavoidable	Virements	Other adjustments		
1. Administration	2 315	-	-	1 132	-	1 132	3 447
Non-profit institutions							
Current	2 315	-	-	920	-	920	3 235
Institutional and Programme Support	-	-	-	920	-	920	920
Households							
Social benefits							
Current	-	-	-	212	-	212	212
Gifts and Donations	-	-	-	212	-	212	212
2. Research, Development and Innovation	845 493	-	-	(17 143)	-	(17 143)	828 350
Departmental agencies and accounts							
Departmental agencies and accounts (non-business entities)							
Current	214 859	-	-	(8 990)	4 496	(4 494)	210 365
Innovation Fund	148 990	-	-	(8 990)	-	(8 990)	140 000
South African National Energy Research Institute	44 268	-	-	-	(21 000)	(21 000)	23 268
Square Kilometer Array	-	-	-	-	25 496	25 496	25 496
Capital	-	-	-	-	165 000	165 000	165 000
Square Kilometer Array Capital	-	-	-	-	165 000	165 000	165 000
Universities and technikons							
Current	10 000	-	-	-	100	100	10 100
Biotechnology Strategy	-	-	-	-	100	100	100
Public corporations and private enterprises							
Public corporations							
Other transfers							
Current	5 000	-	-	-	2 465	2 465	7 465
Biotechnology Strategy	-	-	-	-	50	50	50
Space Science Current	-	-	-	-	2 415	2 415	2 415
Capital	-	-	-	-	14 100	14 100	14 100
Space Science Capital	-	-	-	-	14 100	14 100	14 100

Table 31.5: Summary of changes to transfers and subsidies per programme (continued)

2008/09							
R thousands	Main appropriation	Additional Appropriation				Total additional appropriation	Adjusted appropriation
		Roll-overs	Unforeseeable/ unavoidable	Virements	Other adjustments		
Non-profit institutions							
Current	295 134	-	-	(7 533)	(7 061)	(14 594)	280 540
Biotechnology Strategy	175 507	-	-	-	(150)	(150)	175 357
Health Innovation	20 000	-	-	(1 500)	-	(1 500)	18 500
Hydrogen Strategy	39 071	-	-	(513)	-	(513)	38 558
Innovation Projects	4 510	-	-	(4 510)	-	(4 510)	-
Space Science	25 100	-	-	(1 010)	(2 415)	(3 425)	21 675
Square Kilometer Array	25 496	-	-	-	(25 496)	(25 496)	-
South African National Energy Research Institute	-	-	-	-	21 000	21 000	21 000
Capital	-	-	-	-	-	-	-
Space Science	15 000	-	-	-	(14 100)	(14 100)	900
Square Kilometer Array	265 000	-	-	(736)	(165 000)	(165 736)	99 264
Households							
Social benefits							
Current	-	-	-	116	-	116	116
Gifts and Donations	-	-	-	116	-	116	116
3. International Co-operation and Resources	82 154	-	-	3 479	1 523	5 002	87 156
Departmental agencies and accounts							
Departmental agencies and accounts (non-business entities)							
Current	28 941	-	-	-	1 818	1 818	30 759
Africa Institute of South Africa	28 941	-	-	-	1 523	1 523	30 464
Global Science - International Resources	-	-	-	-	295	295	295
Universities and technikons							
Current	-	-	-	-	1 409	1 409	1 409
Global Science - International Resources	-	-	-	-	1 409	1 409	1 409
Public corporations and private enterprises							
Public corporations							
Other transfers							
Current	-	-	-	3 450	17 677	21 127	21 127
Global Science - Multilaterals & Africa	-	-	-	-	6 399	6 399	6 399
Global Science - International Resources	-	-	-	-	8 112	8 112	8 112
Global Science - Bilateral Cooperation	-	-	-	3 450	3 166	6 616	6 616
Non-profit institutions							
Current	53 213	-	-	-	(19 381)	(19 381)	33 832
Global Science - Multilaterals and Africa	13 203	-	-	-	(6 399)	(6 399)	6 804
Global Science - Bilateral Cooperation	11 688	-	-	-	(3 166)	(3 166)	8 522
Global Science - International Resources	28 322	-	-	-	(9 816)	(9 816)	18 506
Households							
Other transfers							
Current	-	-	-	29	-	29	29
Gifts and Donations	-	-	-	29	-	29	29

Table 31.5: Summary of changes to transfers and subsidies per programme (continued)

		2008/09						
		Additional Appropriation				Total	Adjusted	
R thousands	Main appropriation	Roll-overs	Unforeseeable/ unavoidable	Virements	Other adjustments	additional appropriation	appropriation	
4. Human Capital and Knowledge Systems	1 425 925	-	-	(942)	3 361	2 419	1 428 344	
Departmental agencies and accounts								
Social security funds								
Current	1 039 409	-	-	-	(169)	(169)	1 039 240	
Human Resource Development	256 810	-	-	6 900	(3 530)	3 370	260 180	
National Research Foundation	686 959	-	-	(6 900)	3 361	(3 539)	683 420	
Capital	141 106	-	-	(500)	(89 000)	(89 500)	51 606	
Research and Development Infrastructure	141 106	-	-	(500)	(89 000)	(89 500)	51 606	
Departmental agencies and accounts (non-business entities)								
Current	-	-	-	-	14 929	14 929	14 929	
Science Themes	-	-	-	-	14 929	14 929	14 929	
Universities and technikons								
Current	-	-	-	-	3 300	3 300	3 300	
Science and Youth	-	-	-	-	3 300	3 300	3 300	
Public corporations and private enterprises								
Public corporations								
Other transfers								
Current	-	-	-	-	3 880	3 880	3 880	
Human Resource Development	-	-	-	-	3 530	3 530	3 530	
Indigenous Knowledge System	-	-	-	-	350	350	350	
Capital	-	-	-	-	225 150	225 150	225 150	
Frontier Science and Technology Capital	-	-	-	-	136 150	136 150	136 150	
Research and Development Infrastructure Capital	-	-	-	-	89 000	89 000	89 000	
Non-profit institutions								
Current	100 910	-	-	(500)	(18 579)	(19 079)	81 831	
Academies	5 320	-	-	250	-	250	5 570	
Indigenous Knowledge System	5 270	-	-	(500)	(350)	(850)	4 420	
Science and Youth	43 188	-	-	-	(900)	(900)	42 288	
Science Themes	47 132	-	-	(250)	(17 329)	(17 579)	29 553	
Capital	-	-	-	-	-	-	-	
Frontier Science and Technology	144 500	-	-	-	(136 150)	(136 150)	8 350	
Households								
Other transfers								
Current	-	-	-	58	-	58	58	
Gifts and Donations	-	-	-	58	-	58	58	

Table 31.5: Summary of changes to transfers and subsidies per programme (continued)

2008/09							
R thousands	Main appropriation	Additional Appropriation				Total additional appropriation	Adjusted appropriation
		Roll-overs	Unforeseeable/unavoidable	Virements	Other adjustments		
5. Socio-Economic Partnerships	1 119 195	-	-	(2 623)	12 859	10 236	1 129 431
Departmental agencies and accounts							
Departmental agencies and accounts (non-business entities)							
Current	503 357	-	-	(2 623)	(102 001)	(104 624)	398 733
Human Science Research Council	157 818	-	-	-	6 033	6 033	163 851
Resource Based Industries	33 201	-	-	-	(16 865)	(16 865)	16 336
Technology for Poverty Alleviation	23 660	-	-	-	(6 000)	(6 000)	17 660
Technology for Sustainable Livelihoods	32 155	-	-	-	(11 758)	(11 758)	20 397
Tshumisano	36 600	-	-	-	(36 600)	(36 600)	-
Local Systems of Innovation	6 912	-	-	-	(5 400)	(5 400)	1 512
Local Manufacturing Capacity	28 179	-	-	(2 623)	(8 750)	(11 373)	16 806
Natural Resources and Public Assets	52 832	-	-	-	(22 661)	(22 661)	30 171
Universities and technikons							
Current	-	-	-	-	3 500	3 500	3 500
Technology for Sustainable Livelihoods	-	-	-	-	3 100	3 100	3 100
Local Systems of Innovation	-	-	-	-	400	400	400
Public corporations and private enterprises							
Public corporations							
Other transfers							
Current	545 861	-	-	-	61 487	61 487	607 348
Council for Scientific and Industrial Research	545 861	-	-	-	8 826	8 826	554 687
Resource Based Industries	-	-	-	-	13 365	13 365	13 365
Information Communication Technology	-	-	-	-	24 638	24 638	24 638
Technology for Poverty Alleviation	-	-	-	-	6 000	6 000	6 000
Technology for Sustainable Livelihoods	-	-	-	-	8 658	8 658	8 658
Non-profit institutions							
Current	69 977	-	-	-	49 873	49 873	119 850
Information Communication Technology	69 977	-	-	-	(24 638)	(24 638)	45 339
Local Manufacturing Capacity	-	-	-	-	6 750	6 750	6 750
Tshumisano	-	-	-	-	36 600	36 600	36 600
Resource Based Industries	-	-	-	-	3 500	3 500	3 500
Natural Resources and Public Assets	-	-	-	-	22 661	22 661	22 661
Local Systems of Innovation	-	-	-	-	5 000	5 000	5 000

