

# Vote 31

## Science and Technology

<b>Amount to be appropriated</b>	<b>Main appropriation</b> R1 986 639 000	<b>Adjusted appropriation</b> R2 041 936 000	<b>Decrease</b>	<b>Increase</b> R55 297 000
<b>Responsible minister</b>	Minister of Science and Technology			
<b>Administering department</b>	Department of Science and Technology			
<b>Accounting officer</b>	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.*

### Changes to programme purposes and measurable objectives

No changes were made to programme purposes and measurable objectives.

### Adjusted Estimates of National Expenditure 2005

**Table 31.1: Science and Technology**

Programme	2005/06						Adjusted appropriation
	Main appropriation	Additional appropriation				Total additional appropriation	
R thousand		Roll-overs	Unforeseeable /unavoidable	Virement	Other adjustments		
1.Administration	68 836	–	–	2 743	–	2 743	71 579
2.Science and Technology Expert Services	41 026	–	–	(2 743)	–	(2 743)	38 283
3.International Co-operation and Resources	82 711	–	–	–	454	454	83 165
4.Frontier Science & Technology	1 362 077	–	–	–	22 508	22 508	1 384 585
5.Government Sectoral Programmes and Co-ordination	431 989	–	20 000	–	12 335	32 335	464 324
<b>Total</b>	<b>1 986 639</b>	<b>–</b>	<b>20 000</b>	<b>–</b>	<b>35 297</b>	<b>55 297</b>	<b>2 041 936</b>
<b>Economic classification</b>							
<b>Current payments</b>	<b>156 607</b>	<b>–</b>	<b>–</b>	<b>5 030</b>	<b>–</b>	<b>5 030</b>	<b>161 637</b>
Compensation of employees	80 196	–	–	–	–	–	80 196
Goods and services	76 411	–	–	5 030	–	5 030	81 441
<b>Transfers and subsidies to:</b>	<b>1 829 227</b>	<b>–</b>	<b>20 000</b>	<b>(5 030)</b>	<b>35 297</b>	<b>50 267</b>	<b>1 879 494</b>
Provinces and municipalities	229	–	–	–	–	–	229
Departmental agencies and accounts	1 270 794	–	–	(459 320)	35 297	(424 023)	846 771
Universities and technikons	–	–	–	22 036	–	22 036	22 036
Public corporations and private enterprises	–	–	–	451 138	–	451 138	451 138
Non-profit institutions	201 554	–	20 000	41 041	–	61 041	262 595
Households	356 650	–	–	(59 925)	–	(59 925)	296 725
<b>Payments for capital assets</b>	<b>805</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>805</b>
Machinery and equipment	805	–	–	–	–	–	805
<b>Total</b>	<b>1 986 639</b>	<b>–</b>	<b>20 000</b>	<b>–</b>	<b>35 297</b>	<b>55 297</b>	<b>2 041 936</b>

## Details of adjustments to 2005 Estimates of National Expenditure

### Unforeseeable and unavoidable expenditure - R20 million

Programme 5: Government Sectoral Programmes and Co-ordination

R20 million has been allocated to preserve the fluoro-chemicals expertise currently housed at the Nuclear Energy Corporation of South Africa.

### Virements

**Table 31.2 Science and Technology (Net effect of all virements)**

From	R thousand	To	R thousand
<b>Programme</b>			
2 Science and Technology Expert Services	2 743	1 Administration	2 743
<b>Economic classification item</b>			
Transfers to departmental agencies and accounts	459 320	Current payments	5 030
Transfers to households	59 925	Transfers to universities and technikons	22 036
		Transfers to public corporations and private enterprises	451 138
		Transfers to non-profit institutions	41 041

### Details of savings

Programme 2: Science and Technology Expert Services

Savings of R2,743 million, realised under transfers to Grant-in-Aid to Various Institutions, are mainly due to the restructuring of the department, as a result of which funds for an annual departmental event were reallocated.

### Utilisation of savings

Programme 1: Administration

R1,393 million has been used for a knowledge management system and R1,350 million has been used for the Technology Top 100 awards.

### Virements within a programme

Programme 2: Science and Technology Expert Services

Under transfers to Grant-in-Aid to Various Institutions, R130 000 has been shifted from non-profit institutions to universities and technikons to align with SCOA classifications.

Programme 3: International Co-operation and Resources

Under the transfer Global Science, R7,496 million has been shifted from non-profit institutions to departmental agencies and accounts (R6,151 million), universities and technikons (R726 000), and public corporations and private enterprises (R619 000) to align with SCOA classifications.

Programme 4: Frontier Science and Technology

R487,431 million has been shifted within transfers and subsidies to align with SCOA classifications.

## Programme 5: Government Sectoral Programmes and Co-ordination

R34,328 million has been shifted within transfers and subsidies to align with SCOA classifications.

R3,637 million has been shifted from transfers and subsidies to goods and services.

**Other adjustments - R35,297 million****Self-financing expenditure**

## Programme 3: International Co-operation and Resources

R454 000 is an adjustment for VAT for the Africa Institute of South Africa, resulting from new tax legislation.

## Programme 4: Frontier Science and Technology

R22,508 million is an adjustment for VAT National Research Foundation, resulting from new tax legislation.

## Programme 5: Government Sectoral Programmes and Co-ordination

R12,335 million is an adjustment for VAT for the Human Sciences Research Council, resulting from new tax legislation.

**Expenditure 2004/05 and preliminary expenditure 2005/06****Table 31.3: Science and Technology**

Programme	2004/05				2005/06		
	Expenditure outcome				Preliminary expenditure		
R thousand	Adjusted appropriation	Apr 2004 - Sep 2004	Apr 2004 - Mar 2005	Apr 04 - Mar 05 % of adjusted appropriation	Adjusted appropriation	Apr 2005 - Sep 2005	% change 04/05 - 05/06 Apr - Sep
1.Administration	60 272	25 821	59 435	98,6	71 579	30 054	16,4
2.Science and Technology Expert Services	41 458	16 581	40 490	97,7	38 283	14 601	(11,9)
3.International Co-operation and Resources	46 186	19 894	45 933	99,5	83 165	31 498	58,3
4.Frontier Science & Technology	821 892	303 140	823 657	100,2	1 384 585	654 576	115,9
5.Government Sectoral Programmes and Co-ordination	312 604	126 424	312 709	100,0	464 324	119 797	(5,2)
<b>Total</b>	<b>1 282 412</b>	<b>491 860</b>	<b>1 282 224</b>	<b>100,0</b>	<b>2 041 936</b>	<b>850 526</b>	<b>72,9</b>
<b>Current payments</b>	<b>134 270</b>	<b>54 483</b>	<b>124 814</b>	<b>93,0</b>	<b>161 637</b>	<b>60 229</b>	<b>10,5</b>
Compensation of employees	70 661	26 395	58 203	82,4	80 196	32 051	21,4
Goods and services	63 609	28 088	66 611	104,7	81 441	28 178	0,3
<b>Transfers and subsidies to:</b>	<b>1 147 127</b>	<b>434 017</b>	<b>1 149 121</b>	<b>100,2</b>	<b>1 879 494</b>	<b>789 538</b>	<b>81,9</b>
Provinces and municipalities	220	1 080	6 732	3060,0	229	95	(91,2)
Departmental agencies and accounts	702 349	169 658	382 434	54,5	846 771	374 204	120,6
Universities and technikons	-	3 654	16 288	-	22 036	14 975	309,8
Foreign governments and international organisations	-	-	11	-	-	24	-
Public corporations and private enterprises	-	204 085	471 201	-	451 138	326 230	59,9
Non-profit institutions	184 677	49 413	263 528	142,7	262 595	73 411	48,6
Households	259 881	6 127	8 927	3,4	296 725	599	(90,2)
<b>Payments for capital assets</b>	<b>1 015</b>	<b>3 360</b>	<b>8 289</b>	<b>816,7</b>	<b>805</b>	<b>759</b>	<b>(77,4)</b>
Machinery and equipment	1 015	3 360	8 289	816,7	805	759	(77,4)
<b>Total</b>	<b>1 282 412</b>	<b>491 860</b>	<b>1 282 224</b>	<b>100,0</b>	<b>2 041 936</b>	<b>850 526</b>	<b>72,9</b>

## Selected expenditure trends for first half of 2005/06 financial year

Expenditure in the first six months of 2005/06 amounted to R850,526 million, or 42 per cent of the adjusted appropriation of R2,041 billion for the whole year. A new programme structure was adopted in 2005/06 as a part of the departmental restructuring process. However, no under-spending is foreseen for the latter half of the 2005/06 financial year.

## Summary of transfers and subsidies

Table 31.4: Summary of transfers and subsidies per programme

R thousand	2005/06					Adjusted appropriation	
	Main appropriation	Additional appropriation			Total additional appropriation		
		Roll-overs	Unforeseeable /unavoidable	Virement	Other adjustments		
<b>1.Administration</b>	<b>82</b>	-	-	1 350	-	1 350	<b>1 432</b>
<b>Provinces and municipalities</b>							
<b>Municipalities</b>							
<b>Municipal bank accounts</b>							
<b>Current</b>	<b>82</b>	-	-	-	-	-	<b>82</b>
Regional Services Council Levies	82	-	-	-	-	-	82
<b>Non-profit institutions</b>							
<b>Current</b>	-	-	-	1 350	-	1 350	<b>1 350</b>
Technology Top 100	-	-	-	1 350	-	1 350	1 350
<b>2.Science and Technology</b>	<b>6 904</b>	-	-	(2 743)	-	(2 743)	<b>4 161</b>
<b>Expert Services</b>							
<b>Provinces and municipalities</b>							
<b>Municipalities</b>							
<b>Municipal bank accounts</b>							
<b>Current</b>	<b>77</b>	-	-	-	-	-	<b>77</b>
Regional Services Council Levies	77	-	-	-	-	-	77
<b>Universities and technikons</b>							
<b>Current</b>	-	-	-	130	-	130	<b>130</b>
Grant-In-Aid to Various Institutions	-	-	-	130	-	130	130
<b>Non-profit institutions</b>							
<b>Current</b>	<b>6 827</b>	-	-	(2 873)	-	(2 873)	<b>3 954</b>
Academy of Science of South Africa	2 500	-	-	-	-	-	2 500
Grant-In-Aid to Various Institutions	4 327	-	-	(2 873)	-	(2 873)	1 454
<b>3.International Co-operation and Resources</b>	<b>46 680</b>	-	-	-	454	454	<b>47 134</b>
<b>Provinces and municipalities</b>							
<b>Municipalities</b>							
<b>Municipal bank accounts</b>							
<b>Current</b>	<b>36</b>	-	-	-	-	-	<b>36</b>
Regional Services Council Levies	36	-	-	-	-	-	36
<b>Departmental agencies and accounts</b>							
<b>Public entities</b>							
<b>Current</b>	<b>18 514</b>	-	-	6 151	454	6 605	<b>25 119</b>
Africa Institute of South Africa	18 514	-	-	-	454	454	18 968
Global Science	-	-	-	6 151	-	6 151	6 151
<b>Universities and technikons</b>							
<b>Current</b>	-	-	-	726	-	726	<b>726</b>
Global Science	-	-	-	726	-	726	726

		2005/06						
		Additional appropriation				Total additional appropriation	Adjusted appropriation	
R thousand	Main appropriation	Roll-overs	Unforeseeable /unavoidable	Virement	Other adjustments			
<b>Public corporations and private enterprises</b>								
<b>Public corporations</b>								
<b>Other transfers</b>								
	<b>Current</b>	-	-	619	-	619	619	
	Global Science	-	-	619	-	619	619	
<b>Non-profit institutions</b>								
	<b>Current</b>	28 130	-	(7 496)	-	(7 496)	20 634	
	Global Science	28 130	-	(7 496)	-	(7 496)	20 634	
<b>4.Frontier Science &amp; Technology</b>	<b>1 353 384</b>	-	-	-	<b>22 508</b>	<b>22 508</b>	<b>1 375 892</b>	
<b>Provinces and municipalities</b>								
<b>Municipalities</b>								
<b>Municipal bank accounts</b>								
	<b>Current</b>	15	-	-	-	-	15	
	Regional Services Council Levies	15	-	-	-	-	15	
<b>Departmental agencies and accounts</b>								
<b>Public entities</b>								
	<b>Current</b>	952 782	-	(436 801)	22 508	(414 293)	538 489	
	Council for Scientific and Industrial Research	431 649	-	(431 649)	-	(431 649)	-	
	National Laser Centre	18 000	-	(9 972)	-	(9 972)	8 028	
	National Research Foundation	488 133	-	2 000	22 508	24 508	512 641	
	Centers of Excellence	15 000	-	-	-	-	15 000	
	Frontier Science and Technology	-	-	170	-	170	170	
	Science Themes	-	-	2 650	-	2 650	2 650	
	<b>Capital</b>	4 240	-	-	-	-	4 240	
	National Research Foundation	4 240	-	-	-	-	4 240	
<b>Universities and technikons</b>								
	<b>Current</b>	-	-	20 430	-	20 430	20 430	
	Frontier Science and Technology	-	-	200	-	200	200	
	Biotechnology Strategy	-	-	200	-	200	200	
	Frontier Science and Technology	-	-	20 000	-	20 000	20 000	
	Science Themes	-	-	30	-	30	30	
<b>Public corporations and private enterprises</b>								
<b>Public corporations</b>								
<b>Other transfers</b>								
	<b>Current</b>	-	-	444 221	-	444 221	444 221	
	Council for Scientific and Industrial Research	-	-	431 649	-	431 649	431 649	
	National Laser Centre	-	-	9 972	-	9 972	9 972	
	Human Resource Development	-	-	2 600	-	2 600	2 600	
<b>Non-profit institutions</b>								
	<b>Current</b>	166 597	-	22 780	-	22 780	189 377	
	Innovation Fund	121 597	-	(20 000)	-	(20 000)	101 597	
	Square Kilometer Array	8 000	-	-	-	-	8 000	
	Frontier Science and Technology	37 000	-	(370)	-	(370)	36 630	
	Biotechnology Strategy	-	-	40 750	-	40 750	40 750	
	Science Themes	-	-	2 400	-	2 400	2 400	

R thousand	2005/06						Adjusted appropriation
	Main appropriation	Additional appropriation				Total additional appropriation	
		Roll-overs	Unforeseeable /unavoidable	Virement	Other adjustments		
<b>Households</b>							
<b>Other transfers</b>							
<b>Current</b>	<b>219 750</b>	–	–	<b>(50 630)</b>	–	<b>(50 630)</b>	<b>169 120</b>
Science and Youth	20 000	–	–	(2 000)	–	(2 000)	18 000
Science Themes	24 750	–	–	(5 080)	–	(5 080)	19 670
Biotechnology Strategy	155 000	–	–	(40 950)	–	(40 950)	114 050
Indigenous Knowledge System	10 000	–	–	–	–	–	10 000
Human Resource Development	10 000	–	–	(2 600)	–	(2 600)	7 400
<b>Capital</b>	<b>10 000</b>	–	–	–	–	–	<b>10 000</b>
Equipment Placement	10 000	–	–	–	–	–	10 000
<b>5. Government Sectoral Programmes and Co-ordination</b>	<b>422 177</b>	–	<b>20 000</b>	<b>(3 637)</b>	<b>12 335</b>	<b>28 698</b>	<b>450 875</b>
<b>Provinces and municipalities</b>							
<b>Municipalities</b>							
<b>Municipal bank accounts</b>							
<b>Current</b>	<b>19</b>	–	–	–	–	–	<b>19</b>
Regional Services Council Levies	19	–	–	–	–	–	19
<b>Departmental agencies and accounts</b>							
<b>Public entities</b>							
<b>Current</b>	<b>295 258</b>	–	–	<b>(28 670)</b>	<b>12 335</b>	<b>(16 335)</b>	<b>278 923</b>
Technology Planning and Diffusion	83 300	–	–	(27 037)	–	(27 037)	56 263
CSIR: Learnership	5 000	–	–	(1 633)	–	(1 633)	3 367
CSIR: Advanced Manufacturing Technology Strategy	31 500	–	–	–	–	–	31 500
National Energy Research Institution	20 000	–	–	–	–	–	20 000
Agricultural Research Council: Public Assets	43 000	–	–	–	–	–	43 000
Medical Research Council: South African Aids Vaccine Initiative	20 000	–	–	–	–	–	20 000
Human Science Research Council	91 958	–	–	–	12 335	12 335	104 293
Indicators	500	–	–	–	–	–	500
<b>Universities and technikons</b>							
<b>Current</b>	–	–	–	<b>750</b>	–	<b>750</b>	<b>750</b>
Technology for Sustainable Livelihoods	–	–	–	750	–	750	750
<b>Public corporations and private enterprises</b>							
<b>Public corporations</b>							
<b>Other transfers</b>							
<b>Current</b>	–	–	–	<b>6 298</b>	–	<b>6 298</b>	<b>6 298</b>
CSIR: Learnership	–	–	–	1 633	–	1 633	1 633
Technology for Sustainable Livelihoods	–	–	–	4 665	–	4 665	4 665
<b>Non-profit institutions</b>							
<b>Current</b>	–	–	<b>20 000</b>	<b>27 280</b>	–	<b>47 280</b>	<b>47 280</b>
Natural Resources	–	–	–	3 880	–	3 880	3 880
Technology for Sustainable Livelihoods	–	–	–	23 400	–	23 400	23 400
NECSA	–	–	20 000	–	–	20 000	20 000

		2005/06						
		Additional appropriation				Total	Adjusted	
R thousand	Main appropriation	Roll-overs	Unforeseeable /unavoidable	Virement	Other adjustments	additional appropriation	appropriation	
<b>Households</b>								
<b>Other transfers</b>								
	<b>Current</b>							
	<b>126 900</b>	-	-	<b>(9 295)</b>	-	<b>(9 295)</b>	<b>117 605</b>	
Information Communication Technology	14 000	-	-	-	-	-	14 000	
Natural Resources	28 000	-	-	(3 880)	-	(3 880)	24 120	
Technology for Poverty Alleviation	37 900	-	-	-	-	-	37 900	
Technology for Sustainable Livelihoods	47 000	-	-	(5 415)	-	(5 415)	41 585	
<b>Total</b>	<b>1 829 227</b>	-	<b>20 000</b>	<b>(5 030)</b>	<b>35 297</b>	<b>50 267</b>	<b>1 879 494</b>	

