

# *Vote Research, Science and Technology*

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MINISTER(S) RESPONSIBLE FOR APPROPRIATIONS: Minister of Research, Science and Technology (M56)

ADMINISTERING DEPARTMENT: Ministry of Research, Science and Technology

MINISTER RESPONSIBLE FOR MINISTRY OF RESEARCH, SCIENCE AND TECHNOLOGY:  
Minister of Research, Science and Technology

## Overview of the Vote

The Minister of Research, Science and Technology is responsible for appropriations in Vote Research, Science and Technology (RST) of a total of \$768 million, a net increase of \$23 million, primarily related to the Government's economic agenda. The budget will commit an additional \$306 million for the Government's economic agenda over four years, including new and reprioritised funding. Appropriations in the Vote RST for the 2010/11 financial year cover the following:

### Departmental Appropriations

- Nearly \$22 million (3% of the Vote) is principally for advice and contract management on RST that supports New Zealand's knowledge base, its capacity to innovate, to manage contracts and agreements within Vote RST and delivers on the outcome for science and technology transforming New Zealanders' wealth and wellbeing. Funds have been allocated for the cost impact associated with the amalgamation of the Ministry of Research Science and Technology with the Foundation for Research Science and Technology. Excluding the amalgamation cost impact, the departmental appropriation for MoRST represents 2% of the Vote.

### Non-Departmental Appropriations

- In late 2009, the Government set priorities for Vote RST, to reflect its broader economic growth agenda. The science investment priorities are reflected in changes to individual appropriations. The previous appropriations had become numerous and complicated. The revised set of appropriations is more explicit about where the Government invests in research and what research outcomes are sought.
- Priority investment within science research outcomes is nearly \$566 million (74% of the Vote) in 2010/11. These science investment priorities are high value manufacturing and services, biological industries, energy and minerals, hazards and infrastructure, environment, and health and society.
- Priorities that underpin a successful science system are nearly \$164 million (21% of the Vote) in 2010/11. These priorities include access to modern national research facilities, international relationships, Vision Mātauranga capability fund, Marsden Fund and fellowships.
- Total non-departmental Operational Funding will rise from \$730 million in 2010/11 to \$758 million by 2013/14.

### Capital Appropriations

- A total of \$16 million (2% of the Vote) has been allocated for capital investment through a Budget 2009 decision. The capital investment is for the continued operation of the Kiwi Advanced Research and Education Network (KAREN) which is managed by the Research Education Advanced Network New Zealand Limited (REANNZ).

Details of these appropriations are set out in Parts 2-6 for Vote Research, Science and Technology in the *Information Supporting the Estimates of Appropriations*.

# Details of Appropriations

## Details of Annual and Permanent Appropriations

Titles and Scopes of Appropriations by Appropriation Type	2009/10		2010/11
	Budgeted \$000	Estimated Actual \$000	Budget \$000
<b>Departmental Output Expenses</b>			
<b>Advice on Shaping the Science System MCOA (M56)</b>	13,731	13,731	21,691
<i>Contract Management</i>	1,089	1,089	1,089
Negotiating, managing and monitoring contracts with the Crown's funding and investment agents and with other specific science and technology service providers.			
<i>Policy Advice</i>	12,642	12,642	20,602
Policy advice on research, science and technology. This includes investment strategies, the performance and integration of the innovation system, scientific technical advice and ministerial services.			
<b>Cross Agency Research (M56)</b>	-	-	727
This appropriation is limited to research to assist policy development for the achievement of Government priorities.			
<b>Total Departmental Output Expenses</b>	13,731	13,731	22,418
<b>Non-Departmental Output Expenses</b>			
<b>Biological Industries Research (M56)</b>	-	-	172,227
This appropriation is limited to research and research applications to support productivity growth and sustainability of New Zealand's primary industries, and the development of premium food and industrial biological products and technologies responsive to global consumer preferences.			
<b>Energy and Minerals Research (M56)</b>	-	-	26,446
This appropriation is limited to research and research applications to improve mineral extraction, improve energy security and to obtain efficient and affordable energy use.			
<b>Engaging New Zealanders with Science and Technology (M56)</b>	6,958	6,868	10,039
This appropriation is limited to engaging New Zealanders with science and technology through approaches determined by the Minister.			
<b>Environmental Research (M56)</b>	101,300	101,300	74,253
This appropriation is limited to research and research applications to underpin the management, protection and enhancement of natural ecosystems, land and freshwater resources, climate and atmosphere within New Zealand, including Antarctica.			
<b>Fellowships for Excellence (M56)</b>	-	-	10,732
This appropriation is limited to encouraging the career development of the country's talented early and mid-career researchers.			
<b>Global Technology Partnership (M56)</b>	400	400	400
This appropriation is limited to services that provide New Zealand firms with access to information about international RS&T markets and expertise.			
<b>Hazards and Infrastructure Research (M56)</b>	-	-	23,553
This appropriation is limited to research and research applications to support hazard management and improve the durability of NZ urban and rural settlements.			

Titles and Scopes of Appropriations by Appropriation Type	2009/10		2010/11
	Budgeted \$000	Estimated Actual \$000	Budget \$000
<b>Non-Departmental Output Expenses - cont'd</b>			
<b>Health and Society Research (M56)</b> This appropriation is limited to research and research applications to improve the health and social well-being of New Zealanders.	-	-	<b>87,363</b>
<b>High Value Manufacturing and Services Research (M56)</b> This appropriation is limited to research and research applications to develop new technologies, novel materials, and new products, processes and services for the manufacturing and technology sectors.	-	-	<b>138,407</b>
<b>Marsden Fund (M56)</b> This appropriation is limited to excellent investigator-initiated research.	46,755	46,755	<b>46,755</b>
<b>National Measurement Standards (M56)</b> This appropriation is limited to providing specified standards to satisfy the needs for traceable physical measurement in New Zealand.	5,764	5,764	<b>5,764</b>
<b>Research and Development Facilitation and Promotion Service (M56)</b> This appropriation is limited to the promotion of commercialisation of research and development, and facilitation of linkages between firms and research organisations.	4,200	4,200	<b>5,000</b>
<b>Research Contract Management (M56)</b> This appropriation is limited to selection of research, science and technology-related organisations and individuals for either the provision of research, science and technology outputs, or the award of grants; and negotiate, manage and monitor appropriate contracts with those organisations or individuals.	21,957	21,957	<b>21,807</b>
<b>Vision Mātauranga Capability Fund (M56)</b> This appropriation is limited to the development of skilled people and organisations undertaking research that supports the four themes of Vision Mātauranga; indigenous innovation, environmental sustainability, health and social well being, and exploring indigenous knowledge.	-	-	<b>5,467</b>
<b>Cross Agency Research (M56)</b> Policy and operational research from agencies that contribute to the achievement of government priorities.	1,892	1,892	-
<b>Health Research (M56)</b> This appropriation is limited to obtaining public good science and technology that improves the health status of New Zealanders.	70,955	70,955	-
<b>International Science and Technology Linkages (M56)</b> This appropriation is limited to promoting and supporting New Zealand RS&T internationally as determined by the Minister.	2,982	2,982	-
<b>Māori Knowledge and Development Research (M56)</b> This appropriation is limited to obtaining public good science and technology that unlocks the innovation potential of Māori knowledge.	3,867	3,867	-
<b>New Economy Research Fund (M56)</b> This appropriation is limited to obtaining investigator-initiated research that stimulates the emergence and growth of new knowledge-intensive enterprises.	73,931	73,931	-
<b>Research for Industry (M56)</b> This appropriation is limited to obtaining public good science and technology that improves the competitiveness of the industrial sector.	209,472	209,472	-
<b>Social Research (M56)</b> This appropriation is limited to obtaining public good science and technology that improves social well being.	5,860	5,860	-

	2009/10		2010/11
	Budgeted \$000	Estimated Actual \$000	Budget \$000
<b>Titles and Scopes of Appropriations by Appropriation Type</b>			
<b>Sustainable Energy Development (M56)</b>	4,178	4,178	-
This appropriation is limited to providing financial assistance to private and public organisations demonstrating the potential of new sustainable low carbon energy technologies.			
<b>Total Non-Departmental Output Expenses</b>	560,471	560,381	628,213
<b>Non-Departmental Other Expenses</b>			
<b>Advanced Network Capability Building (M56)</b>	2,340	2,003	200
This appropriation is limited to a grant for the development of capability within the Advanced Network user group (including Tertiary Education Institutes and Crown Research Institutes) to make effective use of the Advanced Network.			
<b>Australian Synchrotron (M56)</b>	694	694	785
This appropriation is limited to a grant being New Zealand Government's contribution to the operation of a synchrotron located in Victoria, Australia.			
<b>Carter Observatory Grant (M56)</b>	2	2	2
This appropriation is limited to a grant in terms of section 19 of the Carter Observatory Act 1938.			
<b>Convention Du Metre (M56)</b>	112	112	135
This appropriation is limited to the payment of New Zealand's annual subscription to the Convention du Metre.			
<b>CRI Capability Fund (M56)</b>	60,612	60,612	60,612
This appropriation is limited to a grant to each Crown Research Institute (CRI) for maintaining and developing the capabilities of CRIs to fulfil their purpose.			
<b>Genomics Research Infrastructure (M56)</b>	12,000	12,000	4,200
This appropriation is limited to a grant to contribute towards the purchase and operation of infrastructure that will support genomics research.			
<b>International Relationships (M56)</b>	-	-	12,652
This appropriation is limited to grants for international research relationships.			
<b>Royal Society of New Zealand (M56)</b>	500	500	500
This appropriation is limited to an annual grant to the Royal Society of New Zealand to contribute towards the Society's aims and functions under the Royal Society of New Zealand Act 1997 to promote and advance science and technology.			
<b>Science Collections and Infrastructure (M56)</b>	-	-	22,379
This appropriation is limited to grants to contribute to the maintenance and retention of databases, collections and significant infrastructure dedicated to research purposes.			
<b>International Investment Opportunities Fund (M56)</b>	9,586	9,586	-
This appropriation is limited to grants that support the ability of research providers to participate in international research collaborations and to recruit highly experienced researchers from overseas.			
<b>Pre-Seed Accelerator Fund (M56)</b>	7,756	7,756	-
This appropriation is limited to grants to eligible organisations to accelerate their rate of commercialisation of publicly funded research.			
<b>Rutherford Foundation (M56)</b>	1,000	1,000	-
This appropriation is limited to a grant towards the development of human resources in research, science and technology.			
<b>Supporting Promising Individuals (M56)</b>	18,468	18,468	-
This appropriation is limited to grants to organisations and individuals that develop human resources in RS&T.			

Titles and Scopes of Appropriations by Appropriation Type	2009/10		2010/11
	Budgeted \$000	Estimated Actual \$000	Budget \$000
<b>Non-Departmental Other Expenses - cont'd</b>			
<b>Technology New Zealand (M56)</b> This appropriation is limited to grants that enhance the technological capability of businesses through the development and adoption of new technologies and new technological business practices.	47,405	47,405	-
<b>Total Non-Departmental Other Expenses</b>	160,475	160,138	101,465
<b>Departmental Capital Expenditure</b>			
<b>Ministry of Research, Science and Technology - Capital Expenditure PLA (M56)</b> This appropriation is limited to the purchase or development of assets by and for the use of the Ministry of Research, Science and Technology, as authorised by section 24(1) of the Public Finance Act 1989.	679	679	345
<b>Total Departmental Capital Expenditure</b>	679	679	345
<b>Non-Departmental Capital Expenditure</b>			
<b>Research and Education Advanced Network New Zealand (M56)</b> Equity investment in Research and Education Advanced Network New Zealand Ltd, to support the company's operations in establishing and operating the Advanced Network.	-	-	<b>16,000</b>
<b>Foundation for Research Science and Technology (M56)</b> Investment in information technology for FRST.	1,000	1,000	-
<b>Total Non-Departmental Capital Expenditure</b>	1,000	1,000	16,000
<b>Total Annual and Permanent Appropriations</b>	736,356	735,929	768,441

## Details of Projected Movements in Departmental Net Assets

### Ministry of Research, Science and Technology

Details of Net Asset Schedule	2009/10 Estimated Actual \$000	2010/11 Projected \$000	Explanation of Projected Movements in 2010/11
Opening Balance	2,411	2,411	
Capital Injections	-	-	
Capital Withdrawals	-	-	
Surplus to be Retained (Deficit Incurred)	-	-	
Other Movements	-	-	
<b>Closing Balance</b>	<b>2,411</b>	<b>2,411</b>	