



# Research Expenditure, 2002

Selected Higher Education Statistics

© Commonwealth of Australia 2004

ISSN xxxx-xxxx

ISSN (electronic copy) xxxx-xxxx

DEST No. xxxx.xxx xxx

This work is copyright. Apart from any use as permitted under the Copyright Act 1968, no part may be reproduced by any process without permission from AusInfo. Requests and inquiries concerning reproduction and rights should be addressed to the Manager, Legislative Services, AusInfo, GPO Box 84, Canberra ACT 2601.

However, for the purposes of teaching, research and administration, a student or member of staff of any Australian higher education institution may copy or reproduce freely any part of the publication at no charge.

# Contents

1. Introduction.....	1
1.1 Background.....	1
1.2 What is in this publication .....	1
1.2.1 How the data were collected .....	1
1.2.2 Research and Experimental Development - Definition .....	2
1.2.3 Type of Research Activity .....	2
1.2.4 Type of Expenditure .....	2
1.2.5 Direct and Indirect Expenditure.....	2
1.2.6 Persons undertaking Research and Experimental Development.....	2
1.2.7 Treatment of Cooperative Research Centres and controlled entities.....	3
1.2.8 Price base.....	3
1.2.9 Higher Education Institutions providing data.....	3
1.2.10 Definitions .....	3
1.2.11 Reporting conventions for data .....	4
1.2.12 Getting access to more data or data in electronic form .....	4
2. Overview of the Data.....	5
2.1 Expenditure on Research and Experimental Development by Type of Expenditure .....	6
2.2 Expenditure on Research and Experimental Development by Source of Funds.....	7
2.3 Expenditure on Research and Experimental Development by Type of Research Activity.....	8
2.4 Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines (RFCD) Classification. ....	9
2.5 Expenditure on Research and Experimental Development by Socio-Economic Objective.....	10
3. The Tables .....	11
Table 1. Expenditure on Research and Experimental Development by State, Institution and Type of Expenditure, 2002 (\$'000) .....	12
Table 2. Expenditure on Research and Experimental Development by State, Institution and Source of Funds for Expenditure, 2002 (\$'000).....	14

Table 3. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines Classification, State and Institution, 2002 (\$'000) .....	16
Table 4. Expenditure on Research and Experimental Development by Socio-Economic Objective, State and Institution, 2002 (\$'000) .....	21
Table 5. Expenditure on Research and Experimental Development by State, Institution and Type of Research Activity, 2002 (\$'000) .....	25
Table 6. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines Classification and Type of Expenditure, 2002 (\$'000) .....	26
Table 7. Expenditure on Research and Experimental Development by Socio-Economic Objective and Type of Expenditure, 2002 (\$'000) .....	29
Table 8. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines Classification and Source of Funds for Expenditure, 2002 (\$'000) .....	30
Table 9. Expenditure on Research and Experimental Development by Socio-Economic Objective and Source of Fund for Expenditure, 2002 (\$'000) .....	31
Table 10. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines Classification and Type of Research Activity, 2002 (\$'000) .....	32
Table 11. Expenditure on Research and Experimental Development by Socio-Economic Objective and Type of Research Activity, 2002 (\$'000) .....	33
<b>4. Appendices .....</b>	<b>34</b>
4.1 Appendix 1. Institutions listed in this publication .....	35
4.2 Appendix 2. Definitions .....	36

# 1. Introduction

---

## 1.1 Background

The Australian Bureau of Statistics (ABS) is responsible for collecting and publishing data relating to resources expended within Australia on research and experimental development. The collection is referred to as the *Survey of Research and Experimental Development*. The data from that collection are directed at meeting the needs of a wide range of clients, and also enable the ABS to meet reporting obligations relating to Australia's participation in collections managed by the Organisation for Economic Co-operation and Development (OECD).

The Department of Education, Science and Training (DEST) also has information requirements relating to resources expended by higher education institutions on research and experimental development. Some of these requirements are met through data provided to the ABS for its collection. Through agreement with higher education institutions and the ABS, DEST is provided with extracts of the data collected by the ABS.

The ABS publishes data from its collection at an aggregated level. A summary of the data collected appears in the ABS publication *Research and Experimental Development: - Higher Education Organisations Australia* (Catalogue No. 8111.0). With the agreement of the ABS, DEST publishes data from the ABS collections but at a much more detailed level, meeting the needs of higher education institutions and other DEST clients.

---

## 1.2 What is in this publication

This publication provides detailed information about expenditure on research and experimental development by Australian higher education institutions in the calendar year 2002. Details are provided at the institution, State and national levels for expenditure analysed by type of expenditure, source of funds, research fields, courses and discipline classification, socio-economic objective and type of research activity.

### 1.2.1 How the data were collected

The primary source of the data presented in this publication is the responses to the *Survey of Research and Experimental Development* for 2002, conducted by the ABS.

The original data were provided to the ABS by higher education institutions in accordance with the instructions in the ABS document entitled *2003 (Data year 2002) Higher Education Survey of Research and Experimental Development - Instruction Booklet*.

## 1.2.2 Research and Experimental Development -

### Definition

The ABS collection conforms to the standards for collection of research and experimental development statistics formulated by the OECD which defines research and experimental development as follows:

*Research and experimental development comprises creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.*

Further details about the type of work comprising research and experimental development are provided in Appendix 2.3 of this document.

## 1.2.3 Type of Research Activity

The data reported relate to the following type of research and experimental development: pure basic research, strategic basic research, applied research and experimental development. These terms are defined in Appendix 2.7 of this document.

## 1.2.4 Type of Expenditure

The data reported relate to capital expenditure and current expenditure. These terms are defined in Appendix 2.6 of this document.

## 1.2.5 Direct and Indirect Expenditure

The expenditure data reported in this publication includes both direct expenditure and a share of the higher education institution's overhead costs. Direct expenditure includes capital expenditure and current expenditure.

Indirect expenditure has been included in the data shown in the tables as follows:

- Research fields, courses and disciplines data: apportioned to each field.
- Type of expenditure data: included in "Other current expenditure".
- Source of funds data: included in "General university funds".
- Socio-economic objective data: apportioned to each objective.

## 1.2.6 Persons undertaking Research and Experimental Development

The expenditure data for a higher education institution relates to research and experimental development work and work in support of research and experimental development, undertaken by people who are members of staff of the higher education institution and by postgraduate research students. Such work includes that undertaken by academic staff, technical staff, other staff and postgraduate research students.

The definition of a “member of staff” which applied in the ABS collections and to the data in this publication is specified in DEST documentation (for the relevant year) entitled *Staff: Selected Higher Education Statistics*. Details are also provided at Appendix 2.2.

The work of some members of staff relates to research and experimental development work (or support for such work) and to other work. In such cases, the expenditure relating to them has been apportioned and only that part relating to research and experimental development (or support for such work) has been reported as direct expenditure in the ABS collection and the data in this publication.

### 1.2.7 Treatment of Cooperative Research Centres and controlled entities

Data reported relates to all research carried out by higher education institutions and their controlled entities irrespective of the source of funding. Data shown are for all research carried out by staff and research students for which the higher education institution has responsibility, including:

- Research carried out as a participant in an unincorporated Cooperative Research Centre (CRC). Only the research carried out by staff or research students of the higher education institution has been included.
- Research carried out on contract for other legal entities (such as a private business or incorporated CRC).

Research and experimental development performed by incorporated CRC’s operating within the higher education institution’s campus has been excluded as it will be collected separately by the ABS. Similarly, research and experimental development carried out by staff of other organisations but on the premises of the higher education institution has been excluded.

### 1.2.8 Price base

The expenditure data reported are in 2002 current prices.

### 1.2.9 Higher Education Institutions providing data

The data for 2002 were obtained from the higher education institutions listed in Appendix 1.

### 1.2.10 Definitions

Definitions of the terms used in this publication are provided in Appendix 2.

### 1.2.11 Reporting conventions for data

In some cases totals do not match precisely with the sums of values in cells in rows and columns. This is due to rounding.

### 1.2.12 Getting access to more data or data in electronic form

The data in this publication are available in electronic form. All tables are available in the form of spreadsheets. This publication, together with other related publications, are available on the Internet from this site:

[www.dest.gov.au/highered/statpubs.htm](http://www.dest.gov.au/highered/statpubs.htm)

For information about the contents of this publication and access to more data please contact:

University Statistics Unit

Higher Education Group

Department of Education, Science and Training

PO Box 9880

Canberra City ACT 2601

Phone: (02) 6240 8765

Fax: (02) 6123 5051

Email: [university.statistics@dest.gov.au](mailto:university.statistics@dest.gov.au)

Costs may be charged for access to more detailed data or for copies of data in electronic form.

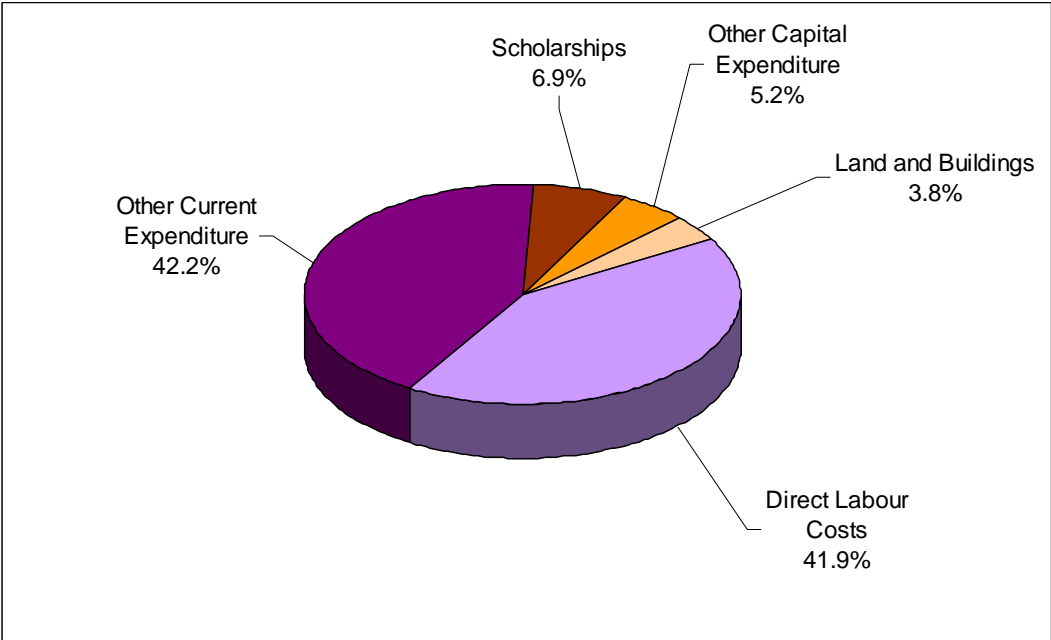
## 2. Overview of the Data

---

## 2.1 Expenditure on Research and Experimental Development by Type of Expenditure

The total expenditure on research and experimental development in 2002 was \$3.42 billion.

Of that expenditure, \$1.45 billion was accounted by “Other” Current Expenditure. The remaining expenditure was attributed to Direct Labour Costs \$1.44 billion, Scholarships \$237 million, Other Capital Expenditure \$177 million, and Land and Buildings \$131 million.



---

## 2.2 Expenditure on Research and Experimental Development by Source of Funds

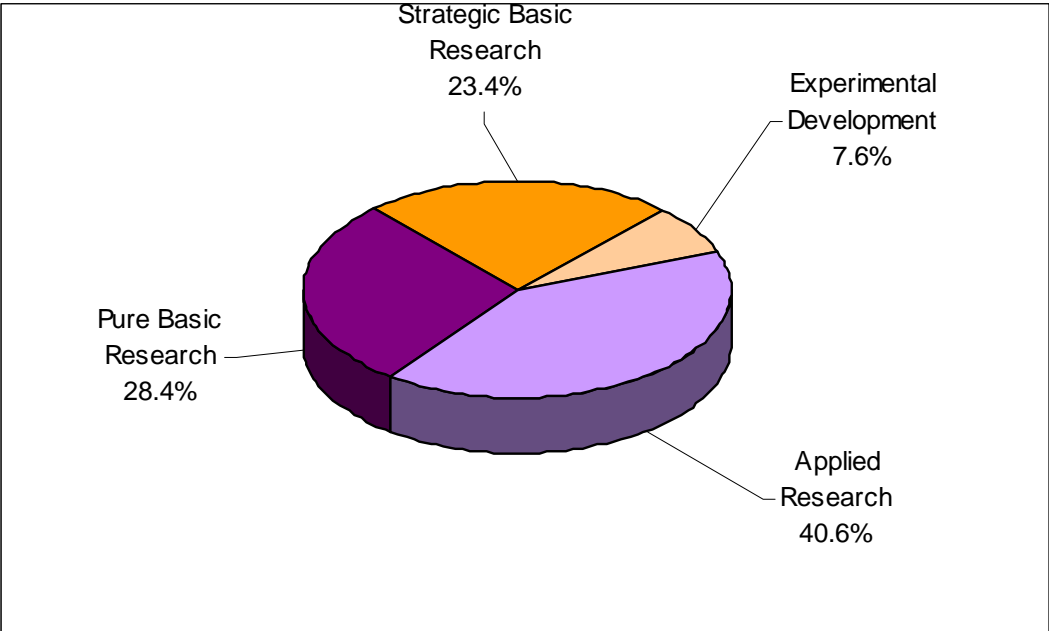
Of the total expenditure 59.3% was sourced from General University Funds. The remainder was sourced from Commonwealth Schemes (14.8%), Other Commonwealth Government sources (11.6%), and a number of other sources (14.3%).

Source of Funds	Research Expenditure	
	(\$'000)	(%)
General University Funds	2,033,319	59.3
Commonwealth Schemes	507,405	14.8
Other Commonwealth Government	397,169	11.6
Business	174,093	5.1
State and Local Government	104,494	3.0
Other Australian	85,974	2.5
Overseas	114,629	3.3
Non-Commonwealth Schemes	12,514	0.4
Total	3,429,597	100.0

---

### 2.3 Expenditure on Research and Experimental Development by Type of Research Activity

Of the total expenditure \$1.39 billion was expended on Applied Research, a further \$975 million on Pure Basic Research, and \$803 million on Strategic Basic Research. The remaining \$261 million was expended on Experimental Development.



## 2.4 Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines (RFCD) Classification.

Of the total expenditure, 25.2% was expended on research and experimental development in Medical and Health Sciences. Biological Sciences accounted for 12.0% of the expenditure and Engineering and Technology accounted for 10.9%. Other classifications accounted for smaller proportions of the total expenditure.

Research Field, Courses and Disciplines Classification	Research Expenditure	
	(\$'000)	(%)
Mathematical sciences	64,002	1.9
Physical sciences	129,350	3.8
Chemical sciences	155,227	4.5
Earth sciences	114,108	3.3
Biological sciences	410,155	12.0
Information, computing and communication sciences	144,133	4.2
Engineering and technology	374,546	10.9
Agricultural, veterinary and environmental sciences	235,190	6.9
Architecture, urban environment and building	20,509	0.6
Medical and health sciences	863,816	25.2
Education	128,357	3.7
Economics	83,788	2.4
Commerce, management, tourism and services	137,227	4.0
Policy and political science	53,529	1.6
Studies in human society	111,448	3.2
Behavioural and cognitive sciences	113,275	3.3
Law, justice and law enforcement	65,764	1.9
Journalism, librarianship and curatorial studies	12,834	0.4
The arts	66,256	1.9
Language and culture	64,129	1.9
History and archaeology	55,499	1.6
Philosophy and religion	26,454	0.8
<b>Total</b>	<b>3,429,597</b>	<b>100.0</b>

## 2.5 Expenditure on Research and Experimental Development by Socio-Economic Objective

Research and experimental development undertaken in areas having socio-economic objectives in the Society category accounted for 43.0% of the total expenditure. The Economic Development category accounted for 28.9%, and Non-Oriented Research 21.3% of the total expenditure. The remainder of the expenditure related to Environment (6.4%) and Defence (0.3%) categories of socio-economic development.

Socio-Economic Objective	Research Expenditure	
	(\$'000)	(%)
<b>DEFENCE</b>		
<b>Defence</b>	<b>10,942</b>	<b>0.3</b>
<b>ECONOMIC DEVELOPMENT</b>		
Plant production and Plant Primary Products	115,779	3.4
Animal production and Animal Primary Products	76,649	2.2
Mineral Resources (excluding Energy)	58,824	1.7
Energy Resources	35,032	1.0
Energy Supply	40,567	1.2
Manufacturing	200,628	5.8
Construction	62,132	1.8
Transport	28,538	0.8
Information and Communication Services	161,797	4.7
Commercial Services and Tourism	42,586	1.2
Economic Framework	169,314	4.9
<b>Total Economic Development</b>	<b>991,845</b>	<b>28.9</b>
<b>SOCIETY</b>		
Health	970,399	28.3
Education and Training	160,840	4.7
Social Development and Community Services	342,985	10.0
<b>Total Society</b>	<b>1,474,224</b>	<b>43.0</b>
<b>ENVIRONMENT</b>		
Environmental Policy Frameworks and Other Aspects	34,343	1.0
Environmental Management	186,730	5.4
<b>Total Environment</b>	<b>221,074</b>	<b>6.4</b>
<b>NON-ORIENTED RESEARCH</b>		
<b>Non-Oriented Research</b>	<b>731,512</b>	<b>21.3</b>
<b>Total</b>	<b>3,429,597</b>	<b>100.0</b>

### 3. The Tables

Table 1. Expenditure on Research and Experimental Development by State, Institution and Type of Expenditure,  
2002 (\$'000)

Table 1. Expenditure on Research and Experimental Development by State, Institution and Type of Expenditure, 2002 (\$'000) (continued)

Table 2. Expenditure on Research and Experimental Development by State, Institution and Source of Funds for Expenditure, 2002 (\$'000)

Table 2. Expenditure on Research and Experimental Development by State, Institution and Source of Funds for Expenditure, 2002 (\$'000) (continued)

Table 3. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification, State and Institution, 2002 (\$'000)

Table 3. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification, State and Institution, 2002 (continued)

Table 3. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification, State and Institution, 2002 (continued)

Table 3. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification, State and Institution, 2002 (continued)

Table 3. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification, State and Institution, 2002 (continued)

Table 4. Expenditure on Research and Experimental Development by Socio-Economic Objective, State and Institution, 2002 (\$'000)

Table 4. Expenditure on Research and Experimental Development by Socio-Economic Objective, State and Institution, 2002 (\$'000) (continued)

Table 4. Expenditure on Research and Experimental Development by Socio-Economic Objective, State and Institution, 2002 (\$'000) (continued)

Table 4. Expenditure on Research and Experimental Development by Socio-Economic Objective, State and Institution, 2002 (\$'000) (continued)

Table 5. Expenditure on Research and Experimental Development by State, Institution and Type of Research Activity, 2002 (\$'000)

Table 6. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification and Type of Expenditure, 2002 (\$'000)

Table 6. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification and Type of Expenditure, 2002 (\$'000) (continued)

Table 6. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification and Type of Expenditure, 2000 (\$'000) (continued)

Table 7. Expenditure on Research and Experimental Development by Socio-Economic Objective and Type of Expenditure, 2002 (\$'000)

Table 8. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification and Source of Funds for Expenditure, 2002 (\$'000)

Table 9. Expenditure on Research and Experimental Development by Socio-Economic Objective and Source of Fund for Expenditure, 2002 (\$'000)

Table 10. Expenditure on Research and Experimental Development by Research Fields, Courses and Disciplines  
Classification and Type of Research Activity, 2002 (\$'000)

Table 11. Expenditure on Research and Experimental Development by Socio-Economic Objective and Type of Research Activity, 2002 (\$'000)

## 4. Appendices

---

## 4.1 Appendix 1. Institutions listed in this publication

### **New South Wales**

Charles Sturt University  
Macquarie University  
Southern Cross University  
The University of New England  
The University of New South Wales  
The University of Newcastle  
The University of Sydney  
University of Technology, Sydney  
University of Western Sydney  
University of Wollongong

### **Victoria**

Deakin University  
La Trobe University  
Monash University  
Royal Melbourne Institute of Technology  
Swinburne University of Technology  
The University of Melbourne  
University of Ballarat  
Victoria University of Technology

### **Queensland**

Bond University  
Central Queensland University  
Griffith University  
James Cook University  
Queensland University of Technology  
The University of Queensland  
University of Southern Queensland  
University of the Sunshine Coast

### **Western Australia**

Curtin University of Technology  
Edith Cowan University  
Murdoch University  
The University of Western Australia

### **South Australia**

The Flinders University of South Australia  
The University of Adelaide  
University of South Australia

### **Tasmania**

Australian Maritime College  
University of Tasmania

### **Northern Territory**

Northern Territory University

### **Australian Capital Territory**

Australian Defence Force Academy  
The Australian National University  
University of Canberra

### **Multi-State**

Australian Catholic University

---

## 4.2 Appendix 2. Definitions

### **A2.1 Research Fields, Courses and Disciplines Classification**

A classification of research and experimental development in terms of its field of research. The ABS's Research Fields, Courses and Disciplines Classification (RFCD) enables research and experimental development work to be classified in terms of research discipline. The RFCD classification is primarily structured around disciplines or activities. It describes what research is being performed. The classification is maintained by the Australian Bureau of Statistics (see 1998 edition of ABS Catalogue no. 1297.0)

### **A2.2 Persons undertaking research and experimental development**

The data included relate to research and experimental development undertaken by or for which support is provided by members of staff as defined in DEST documentation (for the relevant year) entitled *Staff: Selected Higher Education Statistics*. These include:

- persons employed by the institution on a full-time, fractional full-time or casual basis;
- employees of another institution who are working at the institution as either:
  - visiting staff
  - exchange staff, or
  - seconded staff.
- a person who works for the institution or one of its controlled entities on a regular basis but who receives no remuneration (eg. members of religious denominations, unpaid visiting fellows).

Such staff may be:

- Academics. Staff engaged in or supporting research and experimental development and who are defined as having an academic classification in the Definition Appendix of the DEST manual Higher Education Staff Statistics.
- Other staff. Staff undertaking technical or other tasks in support of research and experimental development who do not fall into the above category. Activities include preparation for experiments, taking records, preparation of charts and graphs and coding data. Also includes secretarial and clerical staff working on, or directly associated with research and experimental development activity.

### **A2.3 Research and Experimental Development**

The ABS collection conforms to the standards for collection of research and experimental development statistics formulated by the OECD which defines research and experimental development as follows:

*Research and experimental development comprises creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.*

Any activity classified as research and experimental development is characterised by *originality*, should have *investigation* as a primary objective and should have the potential to produce results that are sufficiently *general* for humanity's stock of knowledge (theoretical and/or practical) to be recognisably increased.

In addition to the activity of staff who are obviously engaged in research and experimental development, research activity *includes*:

- the provision of professional, technical, administrative or clerical support and/or assistance to staff directly engaged in research and experimental development;
- management of staff who are either directly engaged in research and experimental development or are providing professional, technical or clerical support or assistance to those staff;
- activities of students undertaking postgraduate research courses;
- supervision and monitoring of postgraduate research courses;
- supervision of students undertaking postgraduate research courses;
- computer programming, systems work or software maintenance where there are technological uncertainties to be resolved;
- research work in the social sciences and humanities.

The following specific activities are *excluded* except where they are used primarily for the support of, or as part of, research and experimental development activities:

- preparation for teaching;
- scientific and technical information services;
- engineering and technical services;
- general purpose or routine data collection;
- standardisation and routine testing;
- feasibility studies (except into research and experimental development projects);
- specialised routine medical care, for example routine pathology services;
- the commercial, legal and administrative aspects of patenting, copyrighting or licensing activities;
- routine computer programming, systems work or software maintenance where there are no technological uncertainties to be resolved.

Research and experimental development activity may be pure basic research, strategic basic research, applied research or experimental development.

## **A2.4 Socio-Economic Objective Classification**

The area of expected national benefit rather than the immediate objectives of the researcher. The SEO classification defines the main areas of Australian economic and social activity to which the results of research programs are applied. It describes the purpose of the research; i.e. why the research is being performed. The classification is maintained by the Australian Bureau of Statistics (see 1998 edition of ABS Catalogue no. 1297.0).

## **A2.5 Source of Funds**

The sources of funds for research and experimental development comprise:

### **A2.5.1 Australian Competitive Research Grants:**

#### **A2.5.1.1 Commonwealth schemes (by portfolio):**

- Agriculture, Fisheries and Forestry – Australia:
  - Australian Pork Ltd
  - Cotton R&D Corporation Research Grants
  - Dairy R&D Corporation Competitive Grants
  - Fisheries R&D Corporation
  - Forest and Wood Products R&D Corporation
  - Grains R&D Corporation
  - Grape and Wine R&D Corporation Competitive
  - Horticultural Australia Ltd
  - Land and Water Australia
  - Meat and Livestock Australia Research Program
  - Rural Industries R&D Corporation
  - Sugar R&D Corporation
  - Tobacco R&D Council
- Attorney-General's:
  - Criminology Research Fund
- Australian Greenhouse Office:
  - Renewable Energy Commercialisation Program
- Communications, Information Technology and the Arts:
  - ICT Centre for Excellence
  - Telecommunication Research Grants
- Defence:
  - Army History Research Grants Scheme
- Education, Science and Training
  - Australian Institute of Aboriginal and Torres Strait Islander Studies – Research Grants
  - Australian National Training Authority - VET Research Centres

- Australian Research Council
  - Indigenous Researchers Development Scheme
  - International Research Exchange (IREX) Scheme
  - Key Centres for Teaching & Research
  - Large Research Grants Scheme
  - Research Fellowships Scheme
  - Special Research Centres
  - Strategic Partnerships with Industry – Research and Training (SPIRT) Scheme
  - Discovery
    - Projects (including Research Fellowships)
    - Federation Fellowships
    - Indigenous Researchers’ Development
  - Linkage
    - Projects (including Fellowships and Postgraduate Awards)
    - International
    - Centres of Excellence
- Children’s Literacy National Projects (CLP)
- Grants for National Literacy and Numeracy Strategies Project Programme – Strategic Research Projects
- National Centre for Vocational Education Research LTD (NCVER):
  - National Managed Vocational Education and Training Research and Evaluation Program
  - Adult Literary Research Program
- Environment and Heritage:
  - Australian Antarctic Science Grants
  - Australian Biological Resources Study Participatory Program
  - Great Barrier Reef Marine Park Authority Augmentative Research Grant Scheme
- Foreign Affairs and Trade:
  - Australian Centre for International Agricultural Research (ACIAR) – R&D Development Projects
- Health and Aged Care:
  - Australian Health Ministers Advisory Council (AHMAC)
    - Priority Driven Research Program
  - Commonwealth AIDS Research Grants (CARG)
    - CARG Project Grants

- CARG Fellowships
- CARG National Centres in HIV Research
- CARG Collaborating Centres to the National Centres in HIV Research
- ANCAHRD Commissioned Research Grants
- Cochrane Collaborative Groups' Funding Scheme
- General Practice Evaluation Program (GPEP)
- National Drug Law Enforcement Research Fund (NDLERF)
- National Health and Medical Research Council (NHMRC):
  - Project Grants
  - Program, Unit, Centre and Institute Grants
  - Training Fellows
  - Health Research Partnerships
  - Program in Medical Genomics
  - Research Fellowships
  - Practitioner Fellowships
  - Career Development Awards
  - Burnet Awards
  - Capacity Building Grants in Population Health Research
  - Development Grants
  - Industry Research Fellowships
  - Special Program Grants in Type 1 Diabetes
  - International Collaborative Research Grants Schemes
  - Health and Economics Research
  - Translation Grants In Injury
  - Youth Suicide Prevention
  - National Illicit Drugs Strategy
    - Treatment of Drug Dependencies
    - Aboriginal and Torres Strait Islander People and Communities
  - Electromagnetic Energy Research
  - Centre for Clinical Excellence in Hospital Based Research
  - Social and Behavioural Research into Hepatitis C
  - Otitis Media in Aboriginal and Torres Strait Islander Peoples
  - Diabetes and Related Disorders in Aboriginal and Torres Strait Islander Peoples

- Mental Health
  - Effect of Early Psychosis Intervention Programs
  - Service Evaluation
- Ageing Research
  - Scoping Study on Ageing Research
  - Health Ageing Research Program
- Systems of Care for Chronic Disease
- Palliative Care
  - Targeted Research
  - Short Study
  - Nausea
- Oral Health
- Veterans' Affairs:
  - Health and Medical Research Grants

#### A2.5.1.2. Non-Commonwealth schemes:

- Alcohol Education & Rehabilitation Foundation Ltd – Research Grants
- Australian Coal Association Research Program (ACARP)
- Australian Dental Research Foundation Grants
- Australian Housing and Urban Research Institute (AHURI) Research Funding Scheme
- Australian Institute of Nuclear Science and Engineering (AINSE) Grants (direct grants)
- Australian Kidney Foundation - Project Grants
- Australian and New Zealand College of Anaesthetists – Research Funding Scheme
- Australian Rotary Health Research Fund
- The Clive and Vera Ramaciotti Foundations
- Coal Services Pty Ltd (formerly) Joint Coal Board Health and Safety Trust
- Diabetes Australia Research Trust (DART)
- Dust Disease Board Research Grants Scheme
- Financial Markets Foundation for Children Grants
- Garnett Passe and Rodney Williams Memorial Foundation
  - Grants-in-aid
  - Overseas Research Fellowships
  - Project Grants
  - Research Training Fellowships in Otorhinolaryngology
  - Senior/Principal Research Fellowships

- Juvenile Diabetes Research Foundation Grants
- MBF Health Research Awards – Research Project Grants
- National Breast Cancer Foundation - Kathleen Cunningham Research Grants
- National Heart Foundation of Australia
  - Grants-In-Aid for Research (Biomedical and Education/Health Promotion)
  - Postdoctoral Fellowships
- National Institute of Clinical Studies – Targeted Grants
- National Multiple Sclerosis Society of Australia - Projects Grants and Postdoctoral Fellowships
- Ophthalmic Research Institute of Australia (ORIA)
- Pharmacy Guild of Australia - Investigator Initiated Projects
- Pfizer Pty Ltd
  - Cardiovascular Lipid Research Grants (CVL)
  - Neuroscience Research Grants (NSR)

#### **A2.5.2 State and local government**

Covers any other research funding from state and local government not included above.

#### **A2.5.3 Other Commonwealth government**

Covers any other research funding from Commonwealth departments other than those included above.

#### **A2.5.4 Other Australian sources:**

##### **A2.5.4.1 Business enterprises**

Include both privately and government owned businesses which produce goods or services for sale to the general public at a price intended to cover the cost of production.

##### **A2.5.4.2 General university funds**

Includes funding acquired from sources other than the ones listed above and other than non-Australian sources. Includes:

- grants made by the Commonwealth in accordance with provisions of the Higher Education Funding Act 1988 but excluding grants for Special Research Assistance under provisions in section 23 of that Act;
- income relating to HECS liabilities;
- funding from Commonwealth, State or Local Government agencies but excluding funding provided specifically for research or development work;
- fees and charges;
- income from donations, bequests and foundations but excluding income from donations, bequests and foundations which were provided specifically for research purposes;
- investment income;

- reversions from provisions accounts, loans drawn down, income from the institutions commercial operations and from sale of products or assets.

#### A2.5.4.3 Other:

Covers all other sources from within Australia not included above.

#### A2.5.5 Overseas

Covers all sources of funding from outside Australia.

### A2.6 Type of expenditure

Type of expenditure comprise capital and current:

#### A2.6.1 Capital expenditure:

The acquisition of new and second hand fixed tangible assets, either on the institutions own account or under a finance lease, with an expected life of greater than one year. To enable comparability, both with data collected from other sectors and with data for other countries, capital expenditure should be reported in full for the period when it took place, rather than on an accrual basis. Includes:

##### A2.6.1.1 Land and buildings:

Comprises expenditure on land acquired for R&D (eg testing grounds, sites for laboratories and pilot plants), landscaping, site preparation works, buildings (constructed or purchased), fit-out costs for new buildings and major improvements and modifications. Repair and maintenance expenditure is excluded from this category and included in “Other current expenditure”. Depreciation provisions are excluded.

##### A2.6.1.2. Other capital expenditure:

Includes expenditure on office and other equipment, furnishings, plants and motor vehicles. Where existing equipment is ‘traded-in’ then the expenditure to be reported is to reflect the net cost after the deduction of trade-in allowances. Excludes fit-out costs for new buildings and depreciation provisions.

#### A2.6.2. Current expenditure:

Data should be reported on an accruals basis of accounting where possible. They should relate to expenditure incurred during the year, whether paid or not. If a university prepares it’s accounts on a cash basis, reporting on this basis will suffice. All depreciation provisions should be excluded. If depreciation were included in current expenditure, then the addition of capital expenditure would result in double counting.

##### A2.6.2.1. Direct labour costs:

Comprises the wages, salaries and other labour costs for the reported staff resources. The other labour costs included are contributions to superannuation and pension schemes, payroll tax, workers’ compensation insurance, payments into long service provision accounts and other salary related expenses.

##### A2.6.2.2. Scholarships:

Comprises expenditure by the institution on scholarships (eg stipends) for research higher degrees. Includes HECS postgraduate scholarships other than those funded by DEST. Scholarships which are paid directly to a student by an outside individual or organisation, and scholarships for which funding is provided to the university to

pass on to specific individuals (eg Australian Postgraduate Awards with Stipends, Overseas Postgraduate Research Scholarships) should be excluded from this item and included in 'Other current expenditure'.

#### A2.6.2.3. Other current expenditure:

Comprises all other non-staff expenditures including materials, fuels, water, sewerage, rent and hiring expenses, repairs and maintenance, academic services purchased from outside, cleaning services, postage, freight, telephone and any other expenses other than included above. Exclude depreciation provisions and payments for patent searches and for purchases of technical know-how.

### A2.7 Type of Research Activity

A classification used to categorise research and experimental development by type of activity:

- **Pure basic research** is experimental and theoretical work undertaken to acquire new knowledge without looking for long-term benefits other than the advancement of knowledge.
- **Strategic basic research** is experimental and theoretical work undertaken to acquire new knowledge directed into specified broad areas in the expectation of useful discoveries. It provides the broad base of knowledge necessary for the solution of recognised practical problems.
- **Applied research** is original work undertaken primarily to acquire new knowledge with a specific application in view. It is undertaken either to determine possible uses for the findings of basic research or to determine new ways of achieving some specific and predetermined objectives.
- **Experimental development** is systematic work, using existing knowledge gained from research or practical experience for the purpose of creating new or improved products/processes.