



AUSTRALIAN RESEARCH COUNCIL

**ABORIGINAL AND TORRES STRAIT ISLANDER  
RESEARCHERS DEVELOPMENT PROGRAM**

**GUIDELINES FOR 1998 GRANTS**

APRIL 1997



DEPARTMENT OF EMPLOYMENT, EDUCATION, TRAINING AND  
YOUTH AFFAIRS

HIGHER EDUCATION DIVISION

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## ACRONYMS

ARC	Australian Research Council
DEETYA	Department of Employment, Education, Training and Youth Affairs
FOI	Freedom of Information
HEFA	Higher Education Funding Act
NH & MRC	National Health and Medical Research Council

## DEFINITIONS

In these Guidelines, unless the contrary intention appears:

**'approved project'** means the project approved by the Minister;

**'chief investigator'** means an Aboriginal and Torres Strait Islander researcher who has applied for an Aboriginal and Torres Strait Islander Researchers Development Program Grant. If the application is successful the chief investigator is responsible to the Higher Education Institution/Incorporated Body for the progress of the approved project and for the preparation of all reports and communications required by the Conditions of Award. Where there is more than one chief investigator, the first named chief investigator in the application is responsible for the project. The names of all chief investigators will be included in ARC/DEETYA publications about successful Aboriginal and Torres Strait Islander Researchers Development Program Grants;

**'financial period'** means one calendar year from 1 January to 31 December;

**'grant'** means all the moneys payable to a Higher Education Institution/Incorporated Company under the grant;

**'Higher Education Institution'** means a higher education institution listed in section 4 of the *Higher Education Funding Act 1988*;

**'Incorporated Company'** means a company incorporated or registered in Australia whose primary purpose relates to the welfare and/or advancement of Aboriginal and Torres Strait Islander persons;

**'offer of grant'** means the offer of grant signed by the Minister's delegate;

**'term of a grant'** means the period of 12 months from the first of January 1998;

**'the Minister'** means the Minister for Employment, Education, Training and Youth Affairs or DEETYA officer with a delegation under Subsection 112(1) of the *Higher Education Funding Act 1988*;

**'the responsible officer of the institution'** means the occupant of the position of Deputy Vice-Chancellor (Research) or equivalent position or his/her delegate;

**'the responsible officer of the Incorporated Company'** means the Chief Executive Officer of the Company or equivalent position or his/her delegate; and

**'the Director Research Grants and Training'** means the occupant of the position of Director of the Research Grants and Training Section of the Research Branch of DEETYA, Higher Education Division, or any other Section to which the administration of DEETYA/ARC Research Grants Program may be allocated.

### **CONTACT OFFICER**

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## **INTRODUCTION**

The Aboriginal and Torres Strait Islander Researchers Development Program is an Australian Research Council (ARC)/Department of Employment, Education, Training and Youth Affairs (DEETYA) program to encourage participation in, and to improve the standard of, research conducted by Aboriginal and Torres Strait Islander persons.

The Program is funded under section 23 of the *Higher Education Funding Act 1988* (HEFA) on the advice of the ARC.

The program commenced in 1996 and in its early years will provide support for research projects and through these projects, for training and development in research methodology and the preparation of research proposals by Aboriginal and Torres Strait Islander researchers.

It is envisaged that over time the guidelines for this Program will follow more closely the ARC Large Grants Program guidelines in emphasising the research skills of Aboriginal and Torres Strait Islander researchers and the quality of their project proposals.

## **PROGRAM OBJECTIVES**

The key objective of the program is to develop the performance and expertise of Aboriginal and Torres Strait Islander researchers to a level at which they could compete in open competition for mainstream research funding.

Other objectives of the Program are to:

- support research projects by Aboriginal and Torres Strait Islander Researchers in the biological, mathematical, physical, chemical, engineering, earth and applied sciences, the humanities and social sciences and designated priority areas, which are likely to lead to a significant conceptual advance in the understanding of a subject or to contribute to the solution of an important practical problem;
- provide experience in the preparation of the research grant applications;
- provide training/development in research methodology during the course of research projects funded under this program; and
- encourage participation in, and develop the standard of, research undertaken by Aboriginal and Torres Strait Islander persons.

## **ITEMS AND OTHER TYPES OF WORK NOT SUPPORTED**

Research grants will **not** be given for:

- research more appropriately funded under other Commonwealth programs (eg programs administered by the NHMRC and the rural R&D corporations);
- the production of teaching or curriculum materials, even though some research may be involved in their production;
- scholarly investigations which, while important in themselves, do not lead to conceptual advances or discoveries, or to novel practical outcomes or applications. Such projects

include uncritical bibliographical compilations, purely descriptive catalogues or editions which do not involve original research; and

- those activities that lead solely to the creation or performance of a work of art, including visual art, musical compositions, drama, dance, designs and literary works. Commonwealth Government support for these activities is provided through the Australia Council for the Arts.

Applicants should also note that assessors in most fields tend not to give a high rating to data compilation or the development of research aids and tools (including computer programs). If databases, computer programs or other research aids are being compiled as part of a project, a statement must be provided indicating the research objectives to which they would be directed.

## **ROLES AND RESPONSIBILITIES**

### **The Minister**

The Minister for Employment, Education, Training and Youth Affairs approves the allocation of research grant funds on the recommendation of the ARC. The Minister is also responsible for variations to original grants (this function is delegated to the First Assistant Secretary, Higher Education Division (HED), under section 112 of the HEFA) and reallocation of funds not used.

### **DEETYA Staff**

The First Assistant Secretary of the HED and the Assistant Secretary, Research Branch, HED, are the Minister's delegates in the administration of the Program under the HEFA.

Staff of the Research Branch of DEETYA administer grants recommended by the Reference Group and approved by the Minister, as well as provide advice to the Reference Group on the operation of the Program.

### **The Australian Research Council (ARC)**

The ARC was established in 1988, under the *Employment, Education and Training Act 1988*. A function of the ARC is to make recommendations to the Minister with respect to the distribution of resources allocated to any research scheme referred, in writing, to the Council by the Minister.

### **The ARC Reference Group**

The Reference Group, consisting of Aboriginal and Torres Strait Islander persons, representatives of key Aboriginal and Torres Strait Islander organisations, the Chair of the ARC Research Grants Committee (RGC) and one RGC discipline panel member, provides advice to the ARC on the allocation of funds for the Aboriginal and Torres Strait Islander Researchers Development Program and any other matters referred to it by the ARC.

The annual program of activities for the Reference Group is determined by the ARC.

## **CROSS-PROGRAM ELIGIBILITY**

Applying for or receiving a grant from another program, either internal or external to DEETYA, does not preclude application to the Aboriginal and Torres Strait Islander

Researchers Development Program except where a researcher is receiving a salary from another Commonwealth research funding scheme other than a fellowship awarded on the advice of the ARC or NHMRC. The Reference Group will, however, take into account the available time a researcher has and may refuse to recommend a grant on the grounds the researcher is overcommitted.

## **COORDINATION WITH OTHER COMMONWEALTH GRANTING SCHEMES**

If an application is judged by the Reference Group to be outside the scope of the Aboriginal and Torres Strait Islander Researchers Development Program it may be submitted to other ARC grants programs for consideration.

## **SIZE AND DURATION OF GRANTS**

Grants will be for a minimum of \$3,000 per year for up to three years for a research project.

The funds available for the program are limited. For 1998 the amount available is \$210,000 and a similar amount is expected to be available for 1999.

## **PROJECT MANAGEMENT**

Aboriginal and Torres Strait Islander Researchers Development Program grants, when allocated, are administered by relevant Higher Education Institutions through their Research Grant Administrators, or through an Incorporated Company, such as the Cherbourg Aboriginal Council, which would report to DEETYA on progress in relation to the grant, including details of expenditure and requested variations to the grant.

## **ELIGIBILITY CRITERIA**

### **Target Group**

Grants under the Program are available only to Aboriginal and Torres Strait Islander researchers:

- including students seeking a grant for a research project which forms part of their **higher degree studies**; or
- postdoctoral researchers.

The host Institution or incorporated body must have procedures in place to ensure that only Aboriginal and Torres Strait Islander postgraduate research students and postdoctoral researchers submit applications to the program.

While applications are only accepted from Aboriginal and Torres Strait Islander researchers, there is provision, if appropriate, for there to be a mentor (or supervisor) associated with the proposal to provide specific expert advice on the subject of the research.

### **Ineligible Aboriginal And Torres Strait Islander Researchers**

Aboriginal and Torres Strait Islander postgraduate research students and postdoctoral researchers are ineligible to apply for a grant if they are:

- living permanently overseas or employed out of Australia during the term of the grant;
- receiving a salary from another Commonwealth research granting scheme, other than a Fellowship awarded by the ARC or the NHMRC and held at an eligible Higher Education Institution; and/or
- students undertaking research as a requirement for **an undergraduate degree or an undergraduate diploma.**

## **APPLICATION PROCESS AND INSTRUCTIONS FOR APPLICANTS**

### **General Instructions**

Applications should be prepared and submitted by the proposed Aboriginal and Torres Strait Islander researcher as a mature research project and if appropriate should include a training component ready for implementation. The aims of the project should be stated in the clearest terms.

It is emphasised that the mentor (or supervisor) cannot write the application; the researcher must write the application, under the guidance of the mentor (if necessary) in order to assist in the development of research skills.

Applicants should ensure that the application is written in a way that can be understood by Reference Group members who may not necessarily be expert in the field of the proposal. Applicants should also ensure that the proposal provides all the information which the ARC will require to make its assessment.

### **Timetable**

The ARC timetable for the 1998 granting round is:

<i>Month</i>	<i>Year</i>	<i>Event</i>
June	1997	Program Guidelines and application forms advertised and available from Research Grant Administrators and Aboriginal Support Units in Higher Education Institutions
30 July	1997	Closing Date for applications with DEETYA in Canberra
September	1997	Reference Group meets to consider applications
October	1997	ARC considers Reference Group recommendations
October	1997	Aboriginal and Torres Strait Islander Researchers Development Program recommendations submitted to Minister
December	1997	Announcement of grants; advice to applicants; grant offers to Higher Education Institutions/Incorporated Companies

### **Multiple Applications From Same Team/Researcher**

Only one application will be accepted from a sole researcher. Up to two applications from a researcher will be accepted if at least one involves another researcher as a collaborating chief investigator.

## **Number Of Copies And Length Of Application**

The original application must be provided in A4 format, together with SIX copies. Applications must not exceed ten pages in length, not including the pages of the application form, the Chief Investigator's CV and publications.

## **Address For Applications**

Applications for Aboriginal and Torres Strait Islander Researchers Development grants should be sent to:

Director, Research Grants and Training Section  
Research Branch (Location 731)  
Higher Education Division  
Department of Employment, Education, Training and Youth Affairs  
GPO Box 9880  
CANBERRA ACT 2601

OR  
Director, Research Grants and Training Section  
Research Branch (Location 731)  
Department of Employment, Education, Training and Youth Affairs  
3rd Floor  
Times Square  
16 -18 Mort Street  
CANBERRA ACT 2601

to arrive by close of business on **Thursday 31 July 1997**.

## **Changed Circumstances After Submission Of Application**

It is important that all details of an application — and successful grants — are current. Accordingly, applicants are requested to inform DEETYA, in writing, of any changes to the application after lodgement, as soon as possible, so that accurate records can be maintained and Reference Group members have an up to date picture of the application.

## **Completion of the Application Form**

Applicants should complete all sections of the application form, most of which is self-explanatory. Further information about particular sections is provided below.

### **Mentor/project supervisor details (Section 3)**

Where appropriate, a clearly defined role of the mentor should be provided. A mentor is desirable to provide guidance to the researcher and in particular to provide expert advice on the subject of the research.

### **Project Summary (Section 9)**

Applicants are required to include in their application a maximum 100 word summary of the aims of the research project and the expected outcomes. It is important that the seven-line summary be presented in a clear style, which could be understood easily by an intelligent lay person.

## **Budget Information (Section 12)**

Applicants should avoid devising an 'ambit claim' budget in the expectation that the Reference Group will cut it down to a realistic level. Ambit claims are likely to raise doubts in the minds of members of the Reference Group about the integrity of the proposal and may lead to applications being dismissed rather than negotiated. The ARC will fund projects at what it sees as an appropriate level to allow the project to be undertaken and completed in an efficient and effective manner.

Careful consideration should be given in preparing the budget. The Reference Group may decide that some budgetary items are not warranted, taking an application below the minimum grant level. These minimum grant size refers to the average annual amount offered for the project over the period of the grant, not the amount sought in the first year or the average annual amount applied for in the application. Thus, a fairly high degree of precision is called for, both in estimating, and in justifying, the budget to ensure that it does not drop below the minimum grant level.

The budget section of the application form seeks three sets of information about financial matters:

1. Specification of the various items requested. These should be outlined under the main headings, personnel, equipment, maintenance, travel and other;
2. Costing of each of the above headings for all years, at prices which will apply in 1998;
3. Justification of the budget providing an explanation of the elements of the requested budget and why each element is required. This should be included in Section 15.

If the application is successful, grant offers will have one-line budgets, ie no particular budget items will be specified as being approved for funding, rather it is the responsibility of grantees who receive a grant with a one-line budget to ensure that their expenditure on the project is in accordance with the aims and research training plan of the project.

- It should be noted that no part of a one-line grant may be used for a chief investigator's salary, unless this is specifically provided for in the Offer of Grant.

Funds must be used for the purposes set out in the application budget and justification. In a few instances, the Reference Group may consider it necessary to designate specific funds for particular uses, but this would only be in unusual circumstances.

## **Outline of the proposed research (Section 14)**

In addition to the application form itself, no more than ten pages, excluding the Chief Investigator's abbreviated curriculum vitae, will be considered in the assessment process. Pages in excess of the limit may be removed and not considered by the Reference Group or assessors.

In these 10 pages applicants should describe in detail the proposed initiative and any cooperative arrangements involved. Broadly speaking, applications should address the assessment criteria (see also Assessment Criteria on page 7 below) using the following headings to give details:

1. Aims, expected outcomes and significance. This should be a precisely and convincingly argued outline of the research project being proposed.

2. Research plan, methods and techniques. Where appropriate, any research training to be included in the project should be described.
3. Justification of the budget.
4. Proposed timing.
5. Publications and previous research experience - you should list your previous research experience and all your refereed publications for the last five years (1992 to 1996), highlighting those that are relevant to this project.

Where the cooperation or assistance of another body is needed for the project to be successful, the Reference Group must be provided with appropriate details.

### **Nomination of Assessors (To be attached as the last page of the completed application)**

Applicants should nominate up to three persons who are qualified to assess the project and the likelihood that it will achieve the outcomes identified. The persons nominated should have indicated their availability and should not be associated with the project and/or be from the applicant's Higher Education Institution or sponsoring Incorporated Company; nor should assessors be members of the Reference Group (See *Appendix D*).

If there are persons to whom the applicant does not wish the application to be referred, whether for commercial confidentiality or other reasons, they should also be identified.

### **ASSESSMENT AND SELECTION PROCESS**

Applications will be assessed by the Reference Group, established for this purpose under the auspices of the ARC. Membership of the 1998 Reference group is shown at Appendix D.

The Reference Group is responsible for the assessment of the quality of research projects which are recommended to the ARC for submission to the Minister for the award of Aboriginal and Torres Strait Islander Researchers Development Grants.

As part of the assessment process the Reference Group should seek reports on the quality of the research proposal and the researchers/research team from external assessors to assist in the assessment of the quality of research proposals and researchers or research teams.

#### **Assessment Criteria**

The Reference Group will assess proposals against the assessment criteria listed below and, as indicated above, may seek assessments from independent assessors drawn from the international research community.

Primary criteria for assessment are:

- the quality of the research project being proposed; and
- the quality of the researcher(s) proposing the research project.

The weighting of the following additional criteria will, subject to ARC guidelines, be at the discretion of the Reference Group, and may be used in considering proposals:

- the probable impact of a successful outcome for the research project;

- the extent to which the successful completion of the research project will train and equip the researcher to compete for mainstream research funding; and/or
- the potential for improving the standard of research undertaken by Aboriginal and Torres Strait Islander researchers.

### **Reasons For Not Gaining A Grant**

In most cases, the reason an applicant does not receive a grant will be that the Reference Group or assessors do not rate the project itself, as described in the proposal, or the demonstrated capacity of the investigator, sufficiently highly for the application to be competitive enough within the funds available. Unsuccessful applicants will be sent a statement by the Reference Group outlining the reasons why they were unsuccessful.

### **Appeals**

The ARC has instituted an appeals mechanism for those applicants who believe their Aboriginal and Torres Strait Islander Researchers Development Program Grant application has been unfairly treated in terms of the ARC selection procedures. Applicants wishing to appeal against selection procedures may do so by notifying the ARC Chair, through the Research Grants Administrator of their Higher Education Institution/Incorporated Company, in writing. Appeals against selection procedures must be lodged within 28 days from the date of the letter of notification of outcome from the Director, Research Grants and Training Section.

Appeals will be held only against selection procedures. Appeals will not be heard against Reference Group/Assessor/Expert Adviser Group ratings or comments. An applicant should appeal only where there is clear evidence that the selection procedures followed have contravened the Program Guidelines.

## **FUNDING ARRANGEMENTS AND MANAGMENT OF GRANTS**

The Aboriginal and Torres Strait Islander Researchers Development Program is funded under the HEFA, in accordance with Commonwealth Government budgetary process.

The program operates on a calendar year basis and grants are paid cumulatively in instalments during the year of the grant. The payment dates and the proportions of the grant to be paid at each such date are determined by the Minister under section 111 of the HEFA. Grantees will be advised of the approved payment arrangements for 1998.

### **One-Line Grants**

It is the responsibility of the grantee and their institution (indicated on the Offer of Grant) to ensure that expenditure on the project is in accordance with the aims and research plan of the project. It should be noted that no part of a one-line grant may be used for purposes specifically excluded in this guideline (see also Budget Information on page 4 of the application form).

Because 1998 Aboriginal and Torres Strait Islander Researchers Development Program Grants are one-line grants, additional expenditure allocations will not be provided.

### **DEETYA Recovery Of Unspent/Misused Funds**

Funds that have been neither expended nor committed by 31 December of the grant year will be recovered under section 108 (c) of the HEFA unless the Minister, or his delegate, determines otherwise, (see section on *Carry Forward Requests* below).

Funds not spent or committed for the purposes for which they were provided will also be recovered under section 108 of the HEFA.

### **Carry Forward Requests**

Every effort must be made to spend 1998 grant funds before 31 December 1998. Where expenditure is not possible before 31 December 1998 requests to carry forward unspent 1998 grant funds for expenditure on the approved grant project in 1999, together with reasons, must be submitted by the grantee to the Director, Research Grants and Training Section of DEETYA for consideration by the Minister under subsection 108(c) of the HEFA.

Grantees must submit carry forward requests, and have received written approvals for them, before unspent 1998 grant funds can be spent in 1999 (see section on *DEETYA Recovery of Unspent/Misused Funds* above).

### **Grant Acquittal**

Under subsection 23(5) of the HEFA grantees must provide the Minister with an audited financial statement on each 1998 Aboriginal and Torres Strait Islander Researchers Development Program Grant they receive by 30 June 1999. DEETYA will provide each grantee with details of the format required for the audited financial statement.

### **Deferment**

It is not possible to defer a grant before it is taken up. If an applicant is awarded a grant and is unable to start work on the project in the first year, the grant will lapse and the funds will be reallocated to another project. Grantees should notify the DEETYA as soon as it is known that a grant cannot be taken up.

If a grantee wishes to defer continuation of a project, written application should be made to DEETYA.

### **Financial Reports**

The grantee is responsible for keeping accurate, complete records of expenditure made under a grant. All expenditure must be in accordance with these guidelines and the conditions of award of grant.

The Department will provide institutions with a pro forma for this report before the 30 June 1998.

### **Progress Reports**

In order to secure continued funding of a multi-year grant, grantees are also required to provide certification by the Deputy Vice-Chancellor (Research) or equivalent person, that satisfactory progress is being made on the grant. The Department will inform grantees when this is required.

### **Final Report**

The grantee must also complete a final report at the end of the project or after three years funding, whichever occurs first. This report is to be submitted by 30 June in the year following the completion of the project, on the form supplied to the grantee by DEETYA.

### **Final Report Evaluation**

Final reports are sent to the Reference Group for evaluation and comment.

Those grantees whose final reports are inadequate or of poor quality will be contacted for further information. If the Reference Group is still not satisfied with the outcome of the project, this will be noted against any further applications submitted by the researcher and may affect their success.

## **PROGRAM REVIEW**

### **Retrospective Evaluations Of Funding**

The ARC conducts retrospective evaluations of the funding in various disciplines. The Council has recently reviewed priority funding within the research grants program. A condition of a grant is that a grantee will cooperate, if required to do so, in any ARC evaluation of funding in an applicant's discipline.

### **ARC And DEETYA Reviews**

The ARC, its Programme Management Committee and the Reference Group review each phase of the program on a regular basis. It is expected that grantees will cooperate in providing access to DEETYA staff for this purpose.

## **PRIVACY**

All applications are handled in compliance with the *Privacy Act 1988* which sets standards for the collection of, storage of, access to, use of and disclosure of personal records.

Applications for grants are assessed by the Reference Group, plus peers in the research community both within Australia and overseas. If an applicant does not wish a particular person to see the application, he/she has the opportunity to mention this in the space provided on the application form (See 'Nomination of Assessors').

All applications for grants will be treated as confidential.

### **Assessors**

Assessors of applications are requested to handle applications as confidential documents and are requested to destroy their copy of the application after completing their assessment.

Names of assessors are not released to applicants.

DEETYA officers and/or Reference Group members are asked to destroy all copies of applications and assessments, except for the original, once announcements of grants have been made and the appeal process has been completed. A copy of the relevant assessment is provided to the applicant as part of the normal feedback process. The name of the assessor is not revealed.

## **FREEDOM OF INFORMATION**

All relevant documents are subject to the provisions of the *Freedom of Information Act 1982* and are available by making a valid application in accordance with the Act. The names of assessors are provided in confidence and accepted by DEETYA on that basis.

## **INTELLECTUAL PROPERTY**

Neither the Government nor the ARC has any proprietary interest in the intellectual property which results from the research funds.

Aboriginal and Torres Strait Islander Researchers will need to negotiate appropriate arrangements directly. While evidence that agreement on intellectual property has been reached will not be a precondition for applications to be considered, it is strongly suggested that such matters be settled at the outset.

## **INSURANCE AND LIABILITIES**

Insurance and Liabilities are the responsibility of the grantee.

### **Indemnities**

Indemnities are the responsibility of the grantee.

## **CLASSIFICATION CODES**

Appendices A, B and C contain the following classification codes:

- Appendix A shows the Australian Bureau of Statistics' "Field of Research Classification" codes which are the standard research classification codes used by the Australian Bureau of Statistics to classify research activity in Australia.
- Appendix B shows the Australian Standard Research Classification's "Socio-Economic Objective Classification" codes.
- Appendix C shows the ARC Discipline Category Codes.

Applicants must select the codes most appropriate to their proposal and enter them in the relevant boxes provided on the application form.

The Field of Research Classification Code and the Socio-Economic Objective Classification Code are used by the Australian Bureau of Statistics to produce statistical reports. The ARC Discipline Category Code assists the Reference Group in the Grant assessment process.

**FIELD OF RESEARCH CLASSIFICATION**

The following codes are the standard Field of Research Classification codes used by the Australian Bureau of Statistics to classify research activity in Australia.

Select the code most appropriate to your proposal and enter it in the relevant box on the application form.

The acronym n.e.c. refers to "not elsewhere classified".

**SUBDIVISION 010000 MATHEMATICAL SCIENCES****010100 PURE MATHEMATICS**

- 010101 - Mathematical Logic, Set Theory, Number Theory, Group Theory
- 010102 - Algebraic Structures
- 010103 - Approximation Theory, Fourier Analysis, Harmonic Analysis, Potential Theory
- 010104 - Functional Theory, Operator Theory
- 010105 - Geometry, Topology
- 010199 - Pure Mathematics n.e.c.

**010200 APPLIED MATHEMATICS**

- 010201 - Numerical Analysis, Theory of Computation, Analysis of Algorithms
- 010202 - Differential Equations, Integral Equations
- 010203 - Optimisation, Control Theory
- 010204 - Classical Mechanics, Fluids, Optics, Electromagnetism
- 010299 - Applied Mathematics n.e.c.

**010300 STATISTICS**

- 010301 - Probability Theory
- 010302 - Stochastic Modelling and Analysis
- 010303 - Statistical Theory
- 010304 - Applied Statistics
- 010399 - Statistics n.e.c.

**019900 OTHER MATHEMATICAL SCIENCES n.e.c.**

- 019901 - Biomathematics
- 019999 - Mathematical Sciences n.e.c.

**SUBDIVISION 020000 PHYSICAL SCIENCES**

**020100 ASTRONOMICAL SCIENCES**

- 020101 - Astronomy and Astrophysics
- 020102 - Cosmic Ray Physics
- 020199 - Astronomical Sciences n.e.c.

**020200 THEORETICAL AND CONDENSED MATTER PHYSICS**

- 020201 - Theoretical Physics
- 020202 - Condensed Matter Physics

**020300 ATOMIC, MOLECULAR, NUCLEAR, PARTICLE AND PLASMA PHYSICS**

- 020301 - Atomic and Molecular Physics
- 020302 - Fluids, Plasmas and Electrical Discharges
- 020303 - Nuclear and Particle Physics
- 020399 - Atomic, Molecular, etc Physics n.e.c.

**020400 ACOUSTIC AND OPTICAL PHYSICS**

- 020401 - Acoustics and Opto-acoustical Physics
- 020402 - Optical and Opto-electrical Physics
- 020403 - Quantum Optics
- 020499 - Acoustic and Optical Physics n.e.c.

**029900 OTHER PHYSICAL SCIENCES**

- 029901 - Biophysics
- 029902 - Medical Physics
- 029903 - Instruments and Techniques
- 029999 - Physical Sciences n.e.c.

**SUBDIVISION 030000 CHEMICAL SCIENCES**

**030100 PHYSICAL CHEMISTRY (Incl. Theoretical and Structural)**

- 030101 - Chemical Thermodynamics and Energetics
- 030102 - Chemistry of Catalysis
- 030103 - Polymer Chemistry
- 030104 - Colloid and Surface Chemistry
- 030105 - Chemical Spectroscopy
- 030106 - Structural Chemistry
- 030107 - Mechanisms of Reactions
- 030108 - Theoretical Chemistry
- 030109 - Electrochemistry
- 030199 - Physical Chemistry n.e.c.

**030200 INORGANIC CHEMISTRY**

- 030201 - Transition Metal Chemistry
- 030202 - Main Group Chemistry
- 030203 - Solid State Chemistry
- 030204 - Bioinorganic Chemistry
- 030299 - Inorganic Chemistry n.e.c.

030300 **ORGANIC CHEMISTRY**

- 030301 - Organic Chemical Synthesis
- 030302 - Biological and Medical Chemistry
- 030303 - Physical Organic Chemistry
- 030399 - Organic Chemistry n.e.c.

030400 **ANALYTICAL CHEMISTRY**

- 030401 - Instrumentational Methods
- 030402 - Chemical and Physical Methods
- 030403 - Immunological and Bioassay Methods
- 030499 - Analytical Chemistry n.e.c.

039900 **OTHER CHEMICAL SCIENCES**

- 039901 - Organometallic Chemistry
- 039902 - Environmental Chemistry (including Atmospheric Chemistry)
- 039903 - Industrial Chemistry
- 039999 - Chemical Sciences n.e.c.

**SUBDIVISION 040000 EARTH SCIENCES**

040100 **GEOLOGY**

- 040101 - Mineralogy and Crystallography
- 040102 - Igneous and Metamorphic Petrology
- 040103 - Vulcanology
- 040104 - Sedimentology
- 040105 - Petroleum Geology
- 040106 - Ore Deposit Petrology
- 040107 - Structural Geology
- 040108 - Geotectonics
- 040109 - Geochronology
- 040110 - Biostratigraphy
- 040111 - Palaeontology
- 040112 - Palynology
- 040113 - Geomorphology
- 040114 - Glaciology
- 040199 - Geology n.e.c.

040200 **GEOPHYSICS**

- 040201 - Gravity
- 040202 - Geomagnetism
- 040203 - Electromagnetism
- 040204 - Petrophysics

- 040205 - Explosion Seismology and Stratigraphy
- 040206 - Earthquake Seismology
- 040207 - Radiometrics
- 040299 - Geophysics n.e.c.

#### **040300 GEOCHEMISTRY**

- 040301 - Geochronology and Isotope Geochemistry
- 040302 - Exploration Geochemistry
- 040303 - Organic Geochemistry n.e.c
- 040304 - Inorganic Geochemistry n.e.c
- 040399 - Geochemistry n.e.c.

#### **040400 OCEANOGRAPHY**

- 040401 - Biological Oceanography
- 040402 - Chemical Oceanography
- 040403 - Physical Oceanography
- 040499 - Oceanography n.e.c.

#### **040500 HYDROLOGY**

- 040501 - Groundwater Hydrology
- 040502 - Surfacewater Hydrology
- 040599 - Hydrology n.e.c.

#### **040600 ATMOSPHERIC SCIENCES**

- 040601 - Meteorology
- 040602 - Climatology (including Palaeoclimatology)
- 040603 - Ionospheric and Magnetospheric Physics
- 040699 - Other Atmospheric Sciences n.e.c.

#### **049900 OTHER EARTH SCIENCES**

- 049901 - Physical Geography
- 049902 - Environmental Management and Rehabilitation
- 049999 - Earth Sciences n.e.c.

### **SUBDIVISION 050000 INFORMATION, COMPUTERS AND COMMUNICATION TECHNOLOGIES**

#### **050100 INFORMATION SYSTEMS AND TECHNOLOGIES**

- 050101 - Computer Systems Organisation
- 050102 - Information Systems Management
- 050103 - Artificial Intelligence and Expert Systems
- 050104 - Parallel Processing and Architecture

- 050105 - Computer Graphics
- 050106 - Image Processing
- 050107 - Speech Recognition
- 050108 - Cognitive Science
- 050199 - Information Systems and Technologies n.e.c.

**050200 COMPUTER HARDWARE**

- 050201 - Arithmetic and Logic Structures
- 050202 - Memory Structures
- 050203 - Input, Output and Data Communications
- 050204 - Logic Design
- 050205 - Integrated Circuits
- 050299 - Computer Hardware n.e.c.

**050300 COMPUTER SOFTWARE**

- 050301 - Programming Techniques
- 050302 - Software Engineering
- 050303 - Computer Languages
- 050304 - Operating Systems
- 050399 - Computer Software n.e.c.

**050400 COMMUNICATION TECHNOLOGIES**

- 050401 - Antenna Technology
- 050402 - Optical Systems
- 050403 - Digital Systems
- 050404 - Radio Communications and Broadcasting n.e.c.
- 050405 - Microwave and Millimetrewave Technology
- 050499 - Communication Technologies n.e.c.

**059900 OTHER INFORMATION, COMPUTERS AND COMMUNICATION TECHNOLOGIES**

- 059901 - Mathematics of Computing
- 059902 - Computer-Human Interface
- 059903 - Virtual Reality and Related Simulation
- 059999 - Information, Computers and Communication Technologies n.e.c.

**SUBDIVISION 060000 APPLIED SCIENCES AND TECHNOLOGIES**

**060100 AEROSPACE TECHNOLOGIES AND ENGINEERING**

- 060101 - Avionics
- 060102 - Aeronautical Engineering
- 060103 - Remote Sensing
- 060104 - Satellite Technology

060199 - Aerospace Technologies and Engineering n.e.c.

**060200 MANUFACTURING AND PROCESS TECHNOLOGIES AND ENGINEERING**

- 060201 - Robotics and Mechatronics
- 060202 - Flexible Manufacturing Systems
- 060203 - CAD/CAM Systems
- 060204 - Control Engineering
- 060205 - Welding Sciences
- 060206 - Textile Technology
- 060207 - Membrane and Separation Technologies
- 060299 - Manufacturing and Process Technologies n.e.c.

**060300 INDUSTRIAL BIOTECHNOLOGY AND FOOD SCIENCES**

- 060301 - Fermentation, Biotechnology and Industrial Microbiology
- 060302 - Packaging, Storage and Transportation
- 060303 - Safety and Quality
- 060304 - Food Engineering
- 060305 - Food Processing
- 060399 - Industrial Biotechnology and Food Sciences n.e.c.

**060400 MATERIAL SCIENCES AND TECHNOLOGIES**

- 060401 - Pyrometallurgy
- 060402 - Hydrometallurgy
- 060403 - Extractive Metallurgy n.e.c.
- 060404 - Physical Metallurgy
- 060405 - Ceramics
- 060406 - Polymer and Textile Compounds
- 060407 - Composite Materials
- 060408 - Alloy Materials
- 060409 - Optical Materials
- 060410 - Biomaterials
- 060411 - Superconducting Materials
- 060499 - Material Sciences and Technologies n.e.c.

**069900 OTHER APPLIED SCIENCES AND TECHNOLOGIES**

- 069901 - Building Science
- 069902 - Laser Technology
- 069903 - Biosensor Technologies
- 069999 - Applied Sciences and Technologies n.e.c.

**SUBDIVISION 070000 GENERAL ENGINEERING**

**070100 MECHANICAL AND INDUSTRIAL ENGINEERING**

- 070101 - Mechanical Engineering
- 070102 - Industrial Engineering

**070200 CHEMICAL ENGINEERING**

- 070201 - Chemical Engineering Design
- 070202 - Process Control and Simulation
- 070203 - Fluidization and Fluid Mechanics
- 070204 - Heat and Mass Transfer Operations
- 070299 - Chemical Engineering n.e.c.

**070300 MINING AND MINERAL PROCESSING**

- 070301 - Mining Engineering
- 070302 - Mineral Processing
- 070303 - Petroleum and Reservoir Engineering
- 070304 - Geomechanics
- 070399 - Mining and Mineral Processing n.e.c.

**070400 CIVIL ENGINEERING**

- 070401 - Structural Engineering
- 070402 - Surveying
- 070403 - Water and Sanitary Engineering
- 070404 - Transport Engineering
- 070405 - Agricultural Engineering
- 070499 - Civil Engineering n.e.c.

**070500 ELECTRICAL AND ELECTRONIC ENGINEERING**

- 070501 - Electrical Engineering (General)
- 070502 - Electronics Engineering

**079900 OTHER GENERAL ENGINEERING**

- 079901 - Biomedical Engineering
- 079902 - Power Engineering
- 079903 - Combustion and Fuel Engineering
- 079999 - General Engineering n.e.c.

**SUBDIVISION 080000 BIOLOGICAL SCIENCES**

*(Programs undertaken in a medical context should be classified in Division 100000, 'Medical and Health Sciences')*

**080100 BIOCHEMISTRY**

- 080101 - Biochemistry of Nucleic Acids
- 080102 - Biochemistry of Proteins and Peptides

- 080103 - Biochemistry of Carbohydrates
- 080104 - Biochemistry of Lipids
- 080105 - Biosynthetic Pathways
- 080199 - Biochemistry n.e.c.

#### **080200 GENETICS, MOLECULAR BIOLOGY AND BIOTECHNOLOGY**

- 080201 - Molecular Genetics
- 080202 - Cytogenetics
- 080203 - Population Genetics
- 080204 - Genetic Engineering: Gene Probes
- 080205 - Genetic Engineering: Recombinant DNA Techniques
- 080206 - Genetic Engineering n.e.c.
- 080207 - Molecular Cell Biology
- 080299 - Genetics, Molecular Biology and Biotechnology n.e.c.

#### **080300 MICROBIOLOGY**

- 080301 - Bacteriology
- 080302 - Parasitology
- 080303 - Virology
- 080399 - Microbiology n.e.c.

#### **080400 BOTANY**

- 080401 - Plant Taxonomy
- 080402 - Plant Physiology
- 080403 - Mycology
- 080404 - Plant Pathology
- 080405 - Phycology
- 080499 - Botany n.e.c.

#### **080500 ZOOLOGY**

- 080501 - Animal Taxonomy
- 080502 - Neurobiology
- 080503 - Physiology
- 080504 - Immunology
- 080505 - Anatomy and Histology
- 080506 - Ethology
- 080507 - Entomology
- 080599 - Zoology n.e.c.

#### **080600 ECOLOGY**

- 080601 - Freshwater Ecology (excl. Limnology)
- 080602 - Limnology
- 080603 - Marine Ecology
- 080604 - Terrestrial Ecology

- 080605 - Palaeoecology
- 080699 - Ecology n.e.c.

#### **089900 OTHER BIOLOGICAL SCIENCES**

- 089901 - Evolutionary Biology
- 089902 - Cell Structure and Membrane Biology
- 089903 - Marine Biology
- 089999 - Biological Sciences n.e.c.

#### **SUBDIVISION 090000 AGRICULTURAL SCIENCES**

##### **090100 SOIL AND WATER SCIENCES**

- 090101 - Soil Physics
- 090102 - Soil Biology
- 090103 - Soil Chemistry
- 090104 - Soil and Land Degradation
- 090105 - Applied Hydrology (Drainage, Flooding, Irrigation, Quality etc)
- 090199 - Soil and Water Sciences n.e.c.

##### **090200 CROP AND PASTURE PRODUCTION**

- 090201 - Crop and Pasture Physiology
- 090202 - Crop and Pasture Nutrition
- 090203 - Crop and Pasture Pathology
- 090204 - Plant Breeding
- 090205 - Plant Protection (Pests and Pathogens)
- 090206 - Agronomy
- 090207 - Post Harvest Technologies (Transportation and Storage)
- 090208 - Weed Sciences
- 090299 - Crop and Pasture Production n.e.c.

##### **090300 HORTICULTURE**

- 090301 - Fruit Crops
- 090302 - Floriculture and Ornamental Horticulture
- 090303 - Oenology and Viticulture
- 090304 - Vegetable Culture
- 090399 - Horticulture n.e.c.

##### **090400 ANIMAL PRODUCTION**

- 090401 - Animal Breeding
- 090402 - Animal Reproduction
- 090403 - Animal Nutrition
- 090404 - Animal Husbandry
- 090405 - Animal Protection (Pests and Pathogens)

- 090406 - Animal Growth and Development
- 090499 - Animal Production n.e.c.

**090500 VETERINARY SCIENCES**

- 090501 - Epidemiology
- 090502 - Physiology
- 090503 - Pathology
- 090504 - Bacteriology
- 090505 - Parasitology
- 090506 - Virology
- 090507 - Surgery
- 090508 - Pharmacology
- 090599 - Veterinary Sciences n.e.c.

**090600 FORESTRY SCIENCES**

- 090601 - Breeding
- 090602 - Pests, Health and Diseases
- 090603 - Management and Environment
- 090604 - Fire Management
- 090605 - Wildlife and Habitat Management
- 090606 - Agroforestry
- 090699 - Forestry Sciences n.e.c.

**090700 FISHERIES SCIENCES**

- 090701 - Marine Fisheries
- 090702 - Marine Aquaculture
- 090703 - Inland Water Fisheries and Aquaculture
- 090799 - Fisheries Sciences n.e.c.

**099900 OTHER AGRICULTURAL SCIENCES**

- 099901 - Fertilisers and Agrochemicals (Application etc)
- 099902 - Agricultural Systems and Farm Management
- 099999 - Agricultural Sciences n.e.c.

**SUBDIVISION 100000 MEDICAL AND HEALTH SCIENCES**

*(See also 'Biological Sciences': Only programs with direct medical relevance should be classified as 'Medical and Health Sciences')*

**100100 IMMUNOLOGY**

- 100101 - Allergy

- 100102 - Cellular Immunology
- 100103 - Humoral Immunology and Immunochemistry
- 100104 - Immunogenetics
- 100105 - Transplantation Immunology
- 100106 - Tumor Immunology
- 100199 - Immunology n.e.c.

#### **100201 CLINICAL CHEMISTRY**

- 100201 - Clinical Chemistry
- 100202 - Medical Biochemistry: Carbohydrates
- 100203 - Medical Biochemistry: Lipids
- 100204 - Medical Biochemistry: Nucleic Acids
- 100205 - Medical Biochemistry: Proteins and Peptides
- 100299 - Medical Biochemistry and Clinical Chemistry n.e.c.

#### **100300 MEDICAL MICROBIOLOGY**

- 100301 - Bacteriology
- 100302 - Parasitology
- 100303 - Virology
- 100399 - Medical Microbiology n.e.c.

#### **100400 PHARMACOLOGY**

- 100401 - Basic Pharmacology
- 100402 - Clinical Pharmacology and Therapeutics
- 100403 - Toxicology
- 100499 - Pharmacology n.e.c.

#### **100500 PHYSIOLOGY**

- 100501 - Human Biophysics
- 100502 - Cell Physiology
- 100503 - Systems Physiology
- 100504 - Comparative Physiology
- 100599 - Physiology n.e.c.

#### **100600 NEUROSCIENCES**

- 100601 - Autonomic Nervous System
- 100602 - Central Nervous System
- 100603 - Peripheral Nervous System
- 100604 - Cellular Nervous System
- 100605 - Sensory Systems
- 100699 - Neurosciences n.e.c.

## 100700 **CLINICAL SCIENCES**

- 100701 - Anaesthesia
- 100702 - Dermatology
- 100703 - Cardiology
- 100704 - Dentistry and Oral Surgery
- 100705 - Endocrinology
- 100706 - Foetal Development and Medicine
- 100707 - Gastroenterology and Hepatology
- 100708 - Gerontology and Geriatrics
- 100709 - Haematology
- 100710 - Intensive Care
- 100711 - Infectious Diseases
- 100712 - Medical Genetics
- 100713 - Nephrology and Urology
- 100714 - Neurology and Neuromuscular Disease
- 100715 - Obstetrics and Gynaecology
- 100716 - Oncology and Carcinogenesis
- 100717 - Ophthalmology and Optometry
- 100718 - Orthopaedics
- 100719 - Otolaryngology
- 100720 - Paediatrics and Child Health
- 100721 - Pathology
- 100722 - Psychiatry
- 100723 - Psychology - Clinical
- 100724 - Radiology and Organ Imaging
- 100725 - Radiotherapy and Nuclear Medicine
- 100726 - Rehabilitation and Therapy: Occupational and Physical
- 100727 - Rehabilitation and Therapy: Hearing and Speech
- 100728 - Reproduction
- 100729 - Respiratory Disease
- 100730 - Rheumatology and Arthritis
- 100731 - Surgery
- 100732 - Venereology
- 100799 - Clinical Sciences n.e.c.

## 100800 **PUBLIC HEALTH**

- 100801 - Environmental and Occupational Health and Safety
- 100802 - Epidemiology and Health Information Systems
- 100803 - Mental Health
- 100804 - Nutrition
- 100805 - Preventive Medicine
- 100806 - Primary Health Care
- 100899 - Public Health n.e.c.

## 100900 **HEALTH SERVICES RESEARCH**

- 100901 - Human Bioethics
- 100902 - Health and Community Services Research and Evaluation
- 100903 - Health Care Administration
- 100904 - Health Education and Promotion
- 100905 - Nursing
- 100999 - Health Services Research n.e.c.

**109900 OTHER MEDICAL AND HEALTH SCIENCES**

- 109901 - Biomechanics
- 109902 - Medical Biotechnology
- 109999 - Medical and Health Sciences n.e.c.

**SUBDIVISION 110000 SOCIAL SCIENCES**

**110100 ACCOUNTING AND FINANCE**

- 110101 - Financial and Management Accounting
- 110102 - Auditing and Accountability
- 110103 - Finance
- 110199 - Accounting and Finance n.e.c.

**110200 ECONOMICS**

- 110201 - Economic Theory
- 110202 - Economic History and Political Economy
- 110203 - International Economics
- 110204 - Monetary and Fiscal Theory
- 110205 - Welfare Economics
- 110206 - Health Economics
- 110207 - Labour Economics
- 110208 - Industry and Resource Economics
- 110209 - Agricultural Economics
- 110210 - Econometrics
- 110211 - Economic Models and Forecasting
- 110212 - Environment Economics
- 110299 - Economics n.e.c.

**110300 BUSINESS STUDIES**

- 110301 - Business Management
- 110302 - Industrial Relations
- 110303 - Marketing
- 110399 - Business Studies n.e.c.

**110400 POLITICAL SCIENCES AND PUBLIC POLICY**

- 110401 - Political Science
- 110402 - Public Policy and Administration
- 110403 - International Relations
- 110404 - Science and Technology Policy
- 110499 - Political Sciences and Public Policy n.e.c.

#### **110500 ARCHITECTURE AND URBAN ENVIRONMENT**

- 110501 - Architecture
- 110502 - Urban Planning
- 110503 - Heritage and Conservation
- 110599 - Architecture and Urban Environment n.e.c.

#### **110600 SOCIOLOGY**

- 110601 - Social Theory and Policy
- 110602 - Race and Ethnic Relations
- 110603 - Criminology
- 110699 - Sociology n.e.c.

#### **110700 ANTHROPOLOGY**

- 110701 - Prehistory and Physical Anthropology
- 110702 - Aboriginal Anthropology
- 110799 - Anthropology n.e.c.

#### **110800 SOCIAL STUDIES**

- 110801 - Women's Studies
- 110802 - Urban and Regional Studies
- 110803 - Social Work and Administration
- 110899 - Social Studies n.e.c.

#### **110900 HUMAN GEOGRAPHY**

- 110901 - Economic Geography
- 110902 - Social and Cultural Geography
- 110903 - Recreation and Leisure Studies
- 110999 - Human Geography n.e.c.

#### **111000 POPULATION STUDIES**

- 111001 - Population Trends and Policies (Incl. Fertility and Mortality)
- 111002 - Migration
- 111099 - Population Studies n.e.c.

#### **111100 LAW**

- 111101 - Constitutional and Administration Law
- 111102 - Jurisprudence and Legal History
- 111103 - Family Law
- 111104 - Commercial and Contracts Law
- 111105 - International Law
- 111106 - Criminal Law
- 111199 - Law n.e.c.

#### **111200 PSYCHOLOGY**

- 111201 - Cognition, Motivation and Performance
- 111202 - Learning, Memory and Perception
- 111203 - Biological Psychology, Neuropsychology and Psychopharmacology
- 111204 - Personality, Abilities and Assessment
- 111205 - Social and Organisational Psychology
- 111206 - Developmental Psychology and Ageing
- 111207 - Quantitative Psychology and Methodology
- 111299 - Psychology n.e.c.

#### **111300 EDUCATION**

- 111301 - Educational Psychology and Curriculum Development
- 111302 - History and Philosophy of Education
- 111303 - Sociology of Education
- 111304 - Post Secondary Education
- 111305 - Teacher Education
- 111306 - Educational Administration and Theory
- 111399 - Education n.e.c.

#### **111400 MEDIA AND COMMUNICATION STUDIES**

- 111401 - Media Studies
- 111402 - Journalism
- 111403 - Librarianship and Information Studies
- 111499 - Media and Communication Studies n.e.c.

#### **119900 OTHER SOCIAL SCIENCES**

- 119999 - Other Social Sciences n.e.c.

### **SUBDIVISION 120000 HUMANITIES**

#### **120100 LANGUAGE AND LITERATURE**

- 120101 - Literary Studies: Australian
- 120102 - Literary Studies: Asia and Pacific
- 120103 - Literary Studies: British
- 120104 - Literary Studies: European

- 120105 - Literary Studies: North American
- 120106 - Literary Theory and Genre Studies
- 120107 - Other Literary Studies n.e.c.
- 120108 - Lexicography
- 120109 - Applied Linguistics
- 120110 - Semantics
- 120111 - Linguistics: Studies of Australian Aboriginal Languages
- 120112 - Linguistics: Other Australian Studies
- 120113 - Linguistics n.e.c.
- 120199 - Language and Literature n.e.c.

#### 120200 **HISTORICAL STUDIES**

- 120201 - History: Australian
- 120202 - History: Asian and Pacific
- 120203 - History: American
- 120204 - History: British
- 120205 - History: European
- 120206 - History: Middle Eastern
- 120207 - History: Other
- 120208 - Biography
- 120299 - Historical Studies n.e.c.

#### 120300 **ARCHAEOLOGY AND CLASSICAL STUDIES**

- 120301 - Archaeology
- 120302 - Egyptology
- 120303 - Greek and Roman Classical Studies
- 120399 - Classical Studies and Archaeology n.e.c.

#### 120400 **ARTS**

- 120401 - Music
- 120402 - Fine Arts
- 120403 - Drama
- 120499 - Arts n.e.c.

#### 120500 **DESIGN STUDIES**

- 120501 - Design History and Conservation
- 120502 - Design Theory
- 120503 - Design Innovation
- 120504 - Design Management and Practice
- 120599 - Design Studies n.e.c.

#### 120600 **PHILOSOPHY**

- 120601 - Logic

- 120602 - Metaphysics
- 120603 - Ethics
- 120604 - Social and Applied Philosophy
- 120699 - Philosophy n.e.c.

**120700 RELIGIOUS STUDIES**

- 120701 - Religious Studies

**120800 HISTORY AND PHILOSOPHY OF SCIENCE AND MEDICINE**

- 120801 - History and Philosophy of Science
- 120802 - History and Philosophy of Medicine

**129900 OTHER HUMANITIES**

- 129999 - Other Humanities n.e.c.

## **SOCIO-ECONOMIC OBJECTIVE CLASSIFICATION**

The following codes are the standard Socio-Economic Objective Classification codes used by the Australian Bureau of Statistics to classify research activity objectives in Australia.

Select the code most appropriate to your proposal and enter it in the relevant box on the application form.

### **DIVISION 1 DEFENCE**

010000      **Defence**

### **DIVISION 2 ECONOMIC DEVELOPMENT**

020000      **Plant products and plant primary products**

020100      Field crops  
020200      Horticultural crops  
020300      Forestry  
020400      Primary products from plants

030000      **Animal production and animal primary products**

030100      Livestock  
030200      Pasture, browse and fodder crops  
030300      Fishing  
030400      Primary products from animals

040000      **Mineral Resources (excl energy)**

040100      Exploration  
040200      Primary mining and extraction processes  
040300      First stage treatment of ores and minerals

050000      **Energy resources**

050100      Exploration  
050200      Mining and extraction  
050300      Preparation and supply of energy source minerals  
059900      Other

060000      **Energy supply**

060100	Energy transformation
060200	Renewable energy
060300	Energy distribution
060400	Conservation and efficiency
069900	Other
070000	<b>Manufacturing</b>
070100	Processed food products and beverages
070200	Fibre processing and textiles; footwear and leather
070300	Wood, wood products and paper
070400	Human pharmaceutical products
070500	Veterinary pharmaceutical products
070600	Agricultural chemicals
070700	Industrial chemicals and related products
070800	Basic metal products(incl smelting)
070900	Ceramics, glass and industrial mineral products
071000	Fabricated metal products
071100	Transport equipment
071200	Computer hardware and electronic equipment
071300	Communication equipment
071400	Instrumentation
071500	Machinery and equipment
079900	Other manufactured products
080000	<b>Construction</b>
080100	Planning
080200	Design
080300	Materials performance and processes
080400	Construction processes
080500	Building management and other services
090000	<b>Transport</b>
090100	Ground transport
090200	Water transport
090300	Air transport
099900	Other transport
100000	<b>Information and communication services</b>
100100	Computer software and services
100200	Other information services
100300	Communication services
110000	<b>Commercial services</b>

110100 Electricity, gas and water services and utilities  
110200 Waste management and recycling  
110300 Wholesale and retail trade  
110400 Finance property and business services  
119900 Other commercial services

120000 **Economic framework**

120100 Macroeconomic issues  
120200 Microeconomic issues  
120300 International trade issues  
120400 Management and productivity issues  
120500 Measurement standards and calibration services  
129900 Other economic issues

**DIVISION 3 SOCIETY**

130000 **Health**

130100 Clinical (organs, diseases and conditions)  
130200 Public health  
130300 Health and support services

140000 **Education and training**

140100 Early childhood and primary training  
140200 Secondary education  
140300 Higher education  
140400 Technical and further education  
140500 Special education  
149900 Other education

150000 **Social development and community services**

150100 Community services  
150200 Public services  
150300 Art, sport and recreation  
150400 International relations  
150500 Ethical issues  
159900 Other social development and community issues

## **DIVISION 4 ENVIRONMENT**

### **160000 Environmental knowledge**

- 160100 Climate and atmosphere
- 160200 Ocean
- 160300 Water
- 160400 Land
- 160500 Nature conservation
- 160600 Social environment
- 169900 Other environmental knowledge

### **170000 Environmental aspects of economic development**

- 170100 Plant production and plant primary products (incl forestry)
- 170200 Animal production and animal primary products (incl fishing)
- 170300 Mineral resources (excl energy)
- 170400 Energy resources
- 170500 Energy supply
- 170600 Manufacturing
- 170700 Construction
- 170800 Transport
- 170900 Information and communication services
- 171000 Commercial services
- 171100 Environmental economic framework

### **180000 Environmental management and other aspects**

- 180100 Environmental management
- 189900 Other environmental aspects

## **DIVISION 5 ADVANCEMENT OF KNOWLEDGE**

### **190000 Natural sciences, technologies and engineering**

- 190100 Mathematical sciences
- 190200 Physical sciences
- 190300 Chemical sciences
- 190400 Earth sciences
- 190500 Information, computer and communication technologies
- 190600 Applied sciences and technologies
- 190700 General engineering
- 190800 Biological sciences
- 190900 Agricultural sciences
- 191000 Medical and health sciences

200000 **Social sciences and humanities**

200100 Social sciences

200200 Humanities

## ARC CATEGORY CODES

The following codes are the standard codes used by the ARC to classify discipline groups for grant assessment/selection purposes.

Select the code most appropriate to your proposal and enter it in the relevant box on the application form.

Note: The ARC is the ultimate judge on whether an application merits further consideration by an outside assessor or expert advisory group.

### CATEGORY CODES

<b>Code</b>	<b>Description</b>
0	Molecular and Cell Biology
001	Biological molecules: structure, synthesis and function.
002	Prokaryotes and eukaryotic microorganisms: structure, cell biology, molecular biology and biochemistry.
003	Animals: structure, cell biology, molecular biology, biochemistry, development, physiology, reproduction, immunology and neurobiology.
1	Plant and Animal Biology
101	Ecology, evolution and systematics including molecular phylogeny, genetics including population genetics and plant and animal breeding.
102	Parasitology, host-pathogen interactions, mutualisms and symbioses, environmental microbiology.
103	Animals: ecophysiology and comparative physiology; animals in agriculture and aquaculture.
104	Plants and algae: structure, cell biology, biochemistry and physiology including molecular and gene-modification approaches.
2	Chemistry
201	Physical Chemistry
202	Theoretical Chemistry
203	Inorganic Chemistry
204	Analytical Chemistry

205	Environmental Chemistry
206	Industrial Chemistry
207	Organic Chemistry
208	Biological Chemistry
209	Chemical Sciences (Other)
210	Medicinal Chemistry
211	Natural Product Chemistry
212	Marine Chemistry
213	Supramolecular Chemistry
214	Spectroscopy
215	Polymer Chemistry
216	Electrochemistry
217	Catalysis

### 3 Earth Sciences

301	Regional Geology and Tectonics
302	Structural Geology
303	Petrology and Geochemistry
304	Stratigraphy and Sedimentology
305	Palaeontology
306	Marine Geology
307	Economic Geology
308	Geophysics
309	Geodesy
310	Engineering and Mining Geology
311	Geomorphology and Quaternary Geology
312	Glaciology
313	Hydrology
314	Soil Science
315	Environmental Earth Science
316	Oceanography
317	Atmospheric Science
318	Climatology
319	Planetology

### 4 Engineering - Electric and Computer

401	Robotics
402	Electrical Engineering (General)
403	Machine Perception
404	Artificial Neural Networks
405	Image Processing and Visualisation
406	Electrical Power Engineering
407	Electronics and Microelectronics
408	Signal Processing

409	Communications
410	Optical Electronics and Communications
411	Control and Systems
412	Computer Science and Engineering (General)
413	Computer Hardware
414	Computer Software
415	Mathematics of Computing
416	Information Systems
417	Expert Systems and Artificial Intelligence
418	Remote Sensing and Earth Resources

## 5 Humanities

501	Archaeology and Classical Studies
502	Asian Languages and Literature
503	English Literature (including Australian, American and Other Literatures in English)
504	Other Languages and Literature
505	Drama
506	Linguistics
507	Fine Arts
508	Architecture and Urban Environment
509	Philosophy
510	Anthropology and Prehistory
511	Australian History
512	British and European History
513	Asian and Pacific History
514	Other Fields of History
515	Law and Socio-Legal Studies
516	Media and Communication Studies
517	Cultural Studies
518	Art and Design Studies
519	Music and Musicology
520	Women's Studies

## 6 Physics and Mathematics

601	General Physics
602	Physics of Elementary Particles and Fields
603	Nuclear Physics
604	Atomic and Molecular Physics
605	Phenomenology (including Applications)
606	Fluids, Plasmas and Electric Discharges
607	Condensed Matter: Structure, Mechanical and Thermal Properties
608	Condensed Matter: Electronic Structure, Electrical, Magnetic and Optical Properties

610	Cross Disciplinary Physics
611	Geophysics, Atmospheric Physics, Astronomy and Astrophysics
612	Atmospheric or Ionosphere Sciences
613	Mathematical Logic, Set Theory, Lattices and Combinations
614	Number Theory and Field Theory
615	Rings and Algebras
616	Category Theory, K Theory, Homological Algebra
617	Group Theory (including Topological Groups and Lie Groups)
618	Real and Complex Functions
619	Differential, Difference and Integral Equations
620	Harmonic and Fourier Analysis
621	Functional Analysis
622	Calculus of Variations and Control Theory
623	Geometry
624	Topology and Manifolds
625	Probability Theory and Stochastic Processes
626	Statistics
627	Numerical Analysis and Approximation Theory
628	Particle and Continuum Mechanics
629	Mathematical Programming
630	Acoustics
631	Operations Research

## 7 Social Sciences

701	Economics
702	Business Management and Industrial Relations
703	Human Geography
704	Political Science
705	Sociology
706	Population Studies
707	Accounting and Finance
708	Education
709	Psychology
710	Nursing
711	Social Sciences (other)

## 8 Engineering - Civil, Mechanical and Chemical

801	Civil Engineering (General)
802	Civil Engineering (Structures)
803	Soil and Rock Mechanics
804	Sanitary Engineering
805	Engineering Management
806	Mining Engineering
807	Building Science and Architecture

808	Mechanical Engineering (General)
809	Applied Mechanics
810	Manufacturing Processes and Industrial Engineering
811	Fluid Mechanics
812	Heat and Thermodynamics
813	Aerospace Engineering
814	Applied Science (General) and Applied Physics
815	Engineering Mathematics
816	Chemical Engineering (General)
817	Biochemical Engineering
818	Combustion Engineering and Fuel Technology
819	Petroleum Engineering
820	Materials Science and Engineering
821	Minerals Processing

