

National Health and Medical Research Council
NHMRC
GPO Box 9848, Canberra ACT 2601 <http://www.nhmrc.gov.au>

INSTRUCTION BOOKLET
for
NHMRC
Industry Fellowships
for 2007
Closing Date 7 July 2006

Postal Address:
INDUSTRY FELLOWSHIPS
MDP 33
GPO Box 9848
CANBERRA ACT 2601

PURPOSE

The purpose of the fellowship is to provide a vehicle for Australian researchers to gain experience in industrial research including project planning, business planning, and knowledge of business and industry dynamics, and to increase knowledge of the commercial aspects of R&D within academic/research institutions. The placement will give maximum exposure to research at the commercial interface. The four year fellowship is intended to enable medical researchers to spend intermittent time (up to 50% in industry), which may be in Australia or overseas, followed by the residual % at a research institution in Australia. Applicants must show clear evidence of engagement with industry.

PLEASE STUDY THE DEED OF AGREEMENT FOR RESEARCHER SUPPORT BEFORE COMPLETING THE APPLICATION FORM.

LODGING THE APPLICATION

Applications must be lodged with the NHMRC electronically (see instructions below) by 7 July 2006. In addition, the original single-sided application must be submitted to the NHMRC by the same date, to:

Training Awards Secretariat
 Centre for Research Management
 Office of NHMRC
 MDP 33
 GPO Box 9848
 CANBERRA ACT 2601

Format of Electronic Lodgement

All documents are to be converted into PDF from the original signed RTF documents. This document must be scanned at a resolution of no more than 200dpi (to avoid producing a huge PDF file). All attachments to the application must be included in the single Adobe Acrobat PDF file. It is recommended that version 4 or later of the software is used for compatibility purposes. The single file must be an exact duplicate of the document provided in hard copy, except as follows:

There may be a document that you are required to submit as an attachment to your application that you do not have electronically. In such cases you may include an extract from the document and must:

- Clearly indicate that the text is an extract of another document,
- Clearly identify the sender and recipient,
- Not change the context intended in the original document, and
- Provide a full copy of the document with the hard copy attachments.

NAMING THE FILE – You must name the PDF File following the format of: “[Applicant’s Surname]_[APPID].pdf” - do not include square brackets or spaces in the file name, e.g. Smith_921340.pdf

QUERIES on Electronic Lodgement should be directed to the NHMRC Help Desk on 1800 500983

All other queries should be directed to the Assistant Director, Career Development and Training Awards on 02 6289 9114.

Submission

The single PDF file must be provided to the Research Administration Officer (RAO) of your Administering Institution. The RAO is responsible for:

- Ensuring that the file meets the above criteria, and then
- Sending the file to NHMRC either:
 - On a Compact Disc, for attention:
 - Director,
 - Collaborations and Researcher Support Section
 - Centre for Research Management and Policy,
 - NHMRC, MDP 33, Level 5, 20 Allara St,
 - CANBERRA ACT; 2606 or

By email to training.awards@health.gov.au

The Application must include:

- i. The application form
 - all details are to be provided in the relevant boxes.
 - all dates are to be in day, month, year, format (eg 1 Jan 1996);
 - ii. Evidence of Australian residency status, where applicable;
 - iii. An academic transcript;
 - iv. A CV;
 - v. Certification by the sponsors (Part E of the application form).
 - The applicant is responsible for providing a full copy of the completed application, with the relevant blank report forms, to:
 - Two nominated referees (one of whom should be independent of the applicant, i.e. be from a different institution, not work in the same research area and have no current collaboration.)
 - The sponsor from the proposed research institute / department; and
 - The sponsor from the proposed Industry placement.
 - All reports must be e-mailed to training.awards@health.gov.au
- by 7 July 2006.

Question 1—Administering Institution

The full name and full address of the host institution responsible for administering the grant must appear here (eg Royal Prince Alfred Hospital, Missenden Road, Camperdown NSW 2050). While there may be instances where the research is carried out in more than one location, there can be only one administering institution for each award.

Question 9—Research Classification

Key Broad Research Area

- 001 Basic Science
- 002 Clinical Medicine and Science
- 003 Preventive Medicine
- 004 Health Services Research
- 005 Public Health

Keywords

Indicate a minimum of three and a maximum of five key words that most closely describe this project. **DO NOT EXCEED 20 CHARACTERS, INCLUDING SPACES.** No additional characters will be recorded.

Field of Research:

One only to be selected from the list at **Appendix B** and the 6 figure code for that discipline entered in the box provided at Q26.

The Fields of Research are taken from the Australian Bureau of Statistics (ABS) *Australian Standard Research Classification* 1998 edition. If you wish to obtain more information about these Fields of Research you may access the publication at:

<http://www.abs.gov.au/>

Socio-economic Objectives

Attachment A presents a comprehensive list of Socio-Economic Objectives. Select at least one objective and a maximum of five. Enter the code in the upper part of the box and the percentage allocation in the lower part.

The Socio-Economic Objective of research allows it to be classified in line with the researcher's perceived purpose in undertaking the particular study. It is not to be confused with the nature of the research, ie. the field of research.

The SEO classification system utilised is that developed as the Australian Standard Research Classification (ASRC) by the Australian Bureau of Statistics which is available on the Internet at:

<http://www.abs.gov.au/>

The list of SEOs provided at **Appendix A** has been taken from the list of standard classifications as the most relevant to NHMRC-supported research and is not intended to be de-segregated into specific sub-categories. For example, a research project on cancer of the colon would be classified as Health; Clinical (Organs, Diseases and Abnormal Conditions); Cancer and related disorders; the specific area should be noted in your Keyword choices.

Should your research project not appear to be adequately covered in the provided list, please use the closest “other – not elsewhere classified” item.

The NHMRC acknowledges that any particular piece of research may have more than one purpose and may be relevant to more than one purpose. You will be required to allocate the percentage of research applicable to any specific objective. The total allocation must add up to 100%, and will be limited to a maximum of 5 (five) nominated objectives.

Questions 12-16—Clearance Requirements

Ethics clearances are not required to be presented with the application, but if the application is successful funding cannot commence until relevant clearances are notified to the NHMRC.

Question 23— Synopses of previous Research Experience and Activity, including any interactions you have had in the past with industry and commercialising medical research

This box allows you to outline your previous research activities including details of research areas and techniques with an emphasis on the development of your research career.

The applicants should demonstrate a track record of research excellence and previous experience in research commercialisation. This could include, but not be restricted to, any joint projects or cooperation with industry, development of any patentable intellectual property, and commercial exploitation of intellectual property generated from the applicant's research activities, etc.

Questions 34-36—Project and skills development

Describe the potential of these projects and the choice of both industry and research institution to extend your knowledge and skills.

Question 37—Background, Research Plan and Significance

The proposed research program should not exceed the two (2) pages provided in the form, for both the Industry Component, and the Host Research Institution Component, including references. The proposal should be made up of Aims, Background, Proposed Research Program (briefly mention proposed technologies), a statement concerning the significance of the proposal, and references (a few critical references only, journal reference only, no titles).

Part E—Certification by Applicant, Industry Sponsor and Host Administering Institution, (signatures)

The application is invalid without the signature of the applicant. Additionally, the application will not be considered without the signatures of the proposed industry sponsor, institutional sponsor and the head of the host administering research institution.

The NHMRC accepts as the Head of Institutions: the Registrars of Universities, the Directors of independent Institutes, and the Managers/Secretaries or Medical Superintendents of hospitals.

Part F—Attachments

The applicant's publications should be listed in the CV as:

- i. Refereed journal articles (indicate clearly whether published, in press or submitted), together with the most recent impact factor for the journal. (Please indicate where low journal impact factors may give a misleading impression of your research output, ie publication in very specialised journals, publication in Australian journals with low international impact factors where the research may have had a high impact in Australia).
- ii. Other articles, reports, reviews, book chapters etc; and
- iii. Abstracts;

Please use the format shown below and include all authors, journals, 1st and last page numbers, date of publication and full title.

Example

Bloggs A, Smith B, Applicant C, Jones D. Studies on how best to get a Fellowship.
J Appl Sci 10: 1-15 (1995).

Patents; licensing agreements; royalties

Provide details of any current patents which you or others hold in Australia and overseas and any licensing agreements and royalties which arose directly from research you have undertaken with NHMRC grant funding in the last 10 years. For each patent list the following information:

- Country of patent
- Patent number
- Year taken out
- Name in which the Patent is registered (institution or individual)
- Description of Patent (brief title only)

The NHMRC may use this information in de-identified form for statistical purposes.

Please also provide in the CV a summary of complete career chronology from beginning of tertiary studies: include courses of training or study and all periods of employment, and indicate full or part-time (F/T, P/T) beside each year.

SOCIO-ECONOMIC OBJECTIVE (SEO)**Appendix A****[Do not use Headings]****MANUFACTURING****HUMAN PHARMACEUTICAL PRODUCTS**

Prevention—biological (eg. vaccines)
 Diagnostics
 Treatments (e.g. chemicals, antibiotics)
 Other

INSTRUMENTATION

Scientific Instrumentation
 Medical Instrumentation

INFORMATION AND COMMUNICATION SERVICES**OTHER INFORMATION SERVICES**

Information Services n.e.c.

HEALTH**CLINICAL (ORGANS, DISEASES AND CONDITIONS)**

Infectious Diseases
 Immune System and Allergy
 Blood Disorders
 Neurological Disorders
 Endocrine Diseases (including Diabetes)
 Cardiovascular Diseases
 Inherited Diseases
 Cancer and Related Disorders
 Surgical Methods and Procedures
 Respiratory Diseases (including Asthma)
 Hearing, Vision and Speech
 Oro-dental
 Digestive System
 Arthritis, Bone and Joint Disorders
 Kidney Diseases
 Reproductive Medicine
 Skin and Related Conditions
 Other organs, Diseases and Conditions
 Clinical health not related to particular organs, diseases and conditions

PUBLIC HEALTH

Women's Health
 Health Related to Ageing
 Child Health
 Aboriginal Health
 Substance Abuse
 Occupational Health
 Environmental Health
 Mental Health
 Disease Distribution and Transmission
 Preventive Medicine
 Dental Health
 Nutrition
 Food safety
 Health Status (e.g. indicators of 'well-being')
 Social Structure and Health
 Behaviour and Health
 Public Health n.e.c.

HEALTH AND SUPPORT SERVICES

Health Education and Promotion
 Nursing
 Occupational, Speech and Physiotherapy
 Palliative Care
 Diagnostic Methods
 Evaluation of Health Outcomes
 Health Policy Evaluation
 Health Policy Economic Outcomes
 Health and Support Services n.e.c.

SOCIAL DEVELOPMENT AND COMMUNITY SERVICES**ETHICAL ISSUES**

Bioethics

ENVIRONMENTAL KNOWLEDGE**SOCIAL ENVIRONMENT**

Environmental Health

ENVIRONMENTAL MANAGEMENT AND OTHER ASPECTS**ENVIRONMENTAL MANAGEMENT**

Control of human-induced environmental hazards

ADVANCEMENT OF KNOWLEDGE MEDICAL AND HEALTH SCIENCES

Medical and Health Sciences

Fields of Research

[Do not use Headings]

IMMUNOLOGY

Allergy
Cellular Immunology
Humoral Immunology
and Immunochemistry
Immunogenetics
Transplantation Immunology
Tumour Immunology
Autoimmunity
Immunology not
elsewhere classified

MEDICAL

BIOCHEMISTRY AND CLINICAL CHEMISTRY

Clinical Chemistry
Medical Biochemistry:
Carbohydrates
Medical Biochemistry: Lipids
Medical Biochemistry:
Nucleic Acids
Medical Biochemistry:
Proteins and Peptides
Medical Biochemistry:
Phospholipids
Medical Biochemistry: Other

MEDICAL

MICROBIOLOGY

Medical Bacteriology
Medical Virology
Medical Infection Agents
(incl. Prions)
Medical Mycology
Medical Parasitology
Medical Microbiology not
elsewhere classified

PHARMACOLOGY

AND

PHARMACEUTICAL SCIENCES

Pharmaceutical Sciences
and Pharmacy
Basic Pharmacology
Clinical Pharmacology
and Therapeutics
Toxicology (incl. Clinical
Toxicology)
Pharmacology not
elsewhere classified

MEDICAL

PHYSIOLOGY

Human Biophysics
Cell Physiology
Systems Physiology

Medical Physiology not
elsewhere classified

NEUROSCIENCES

Autonomic Nervous System
Central Nervous System
Peripheral Nervous System
Cellular Nervous System
Sensory Systems
Neurosciences not
elsewhere classified

DENTISTRY

Oral Surgery
Dentistry Support
Dental Technology
Dental Therapy
Dentistry not elsewhere
classified

OPTOMETRY

Optical Technology
Optometry not elsewhere
classified

CLINICAL SCIENCES

Anaesthesiology
Dermatology
Cardiology (incl.
Cardiovascular
Diseases)
Endocrinology
Fetal Development and
Medicine
Gastroenterology
Geriatrics and Gerontology
Haematology
Intensive Care
Infectious Diseases
Medical Genetics
Nephrology and Urology
Neurology and
Neuromuscular
Diseases

Obstetrics and Gynaecology
Oncology and Carcinogenesis
Ophthalmology and Vision
Science
Orthopaedics
Otorhinolaryngology
Paediatrics
Pathology
Psychiatry
Radiology and Organ
Imaging
Radiotherapy and Nuclear
Medicine
Rehabilitation and Therapy:
Occupational and Physical
Rehabilitation and Therapy:
Hearing and Speech

APPENDIX B

Reproduction
Respiratory Diseases
Rheumatology and Arthritis

Surgery
Venereology
Hepatology
Clinical Sciences not
elsewhere classified

NURSING

Midwifery
Clinical Nursing: Primary
(Preventative)
Clinical Nursing: Secondary
(Acute Care)
Clinical Nursing: Tertiary
(Rehabilitative)
Mental Health Nursing
Aged Care Nursing
Nursing not elsewhere
classified

PUBLIC HEALTH and HEALTH SERVICES

Environmental and
Occupational Health and
Safety
Epidemiology
Health Information
Systems (incl. Surveillance)
Mental Health

Nutrition and Dietetics
Preventive Medicine
Indigenous Health
Primary Health Care
Family Care
Community Child Health
Residential Client Care
Care for Disabled
Human Bioethics
Health and Community
Services
Health Care Administration
Health Promotion
Health Counselling
Public Health and Health
services not elsewhere
classified

COMPLEMENTARY/ALTERNATIVE

MEDICINE

Oriental Medicine and
Treatments
Chiropractic
Naturopathy
Complementary/ Alternative
Medicine not elsewhere
classified

HUMAN MOVEMENT and SPORTS SCIENCE

Exercise Physiology
Biomechanics
Motor Control
Sport and Exercise
Psychology
Sports Medicine
Human Movement and Sports
Science not elsewhere
classified

OTHER MEDICAL AND HEALTH SCIENCES

Podiatry

Medical Biotechnology
Therapies and Therapeutic
Technology
Medical and Health Sciences
not elsewhere classified

BIOLOGICAL SCIENCES

BIOCHEMISTRY and CELL BIOLOGY

Analytical Biochemistry
Cell Metabolism
Protein Targeting and Signal
Transduction
Membrane Biology
Cellular Interactions (incl.
Adhesion, Matrix, Cell Wall)
Cell Development (incl. Cell
Division and Apoptosis)
Cell Neurochemistry
Enzymes
Biochemistry and Cell
Biology
not elsewhere classified

GENETICS

Gene Expression
Genome Structure
Population and Ecological
Genetics
Anthropological Genetics
Genetic Development (incl.
Sex Determination)
Genetic Immunology
Quantitative Genetics
Molecular Evolution
Meiosis and Recombination
Neurogenetics
Genetics not elsewhere
classified

BIOTECHNOLOGY

Gene Therapy
Diagnostic Applications
Transgenesis
Genetic Technologies:
Transformation, Site-directed
Mutagenesis, etc.

Genetic Engineering and
Enzyme Technology
Biotechnology not elsewhere
classified

STATISTICS

Applied Statistics

OTHER PHYSICAL SCIENCES

Biophysics
Medical Physics
Instruments and Techniques

BIOMEDICAL ENGINEERING

Clinical Engineering
Rehabilitation Engineering
Biomaterials
Biomechanical Engineering
Biomedical Engineering not
elsewhere classified

ECONOMICS

Health Economics

PSYCHOLOGY

Sensory Processes,
Perceptions and Performance
Learning, Memory,
Cognition
and Language
Biological Psychology
(Neuropsychology,
Psychopharmacology,
Physiological Psychology)
Personality, Abilities
and Assessment
Social and Community
Psychology
Developmental Psychology
and Ageing
Health, Clinical and
Counselling
Psychology
Industrial and Organisational
Psychology
Psychological Methodology,
Design and Analysis
Psychology not Elsewhere classified