Research Grants Schemes Under the Ministry of Education

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RESEARCH EVOLUTION

MOHE

Fundamental

Applied

Development

Industrial Design

Pre-Comm

Business Venture

Post-Comm

MOSTI, etc.

Development of New Knowledge

Development of New Technologies

*PRGS

Market Test

Development of New Products

KNOWLEDGE-BASED ECONOMY (RMK-10)

FRGS / LRGS/ PRGS

ERGS

ERGS

FRGS / LRGS/ PRGS

ERGS

*PRGS

Market Test

Development of New Products

KNOWLEDGE-BASED ECONOMY (RMK-10)
AIMS OF 10TH MP

5,866 Projects

123 IP

923 PhD

ENCULTURATION (2006-2008)

9TH MP FRGS (RM315 mill)

EXCELLENCE (2011-2012)

QUALITY (2009-2010)

FRGS (300 mill)

INSENTIF (41 mill)

PRGS (41 mill)

LRGS (166 mill)

RMK-10 (741 mill)

ERGS (93 mill)

1,500 PhD & Master

500 IP

6,400 PRESENTATIONS & PUBLICATION

APIIT Education Group is the proud recipient of Prime Minister’s Award and Export Excellence Award (Services) for Industry Excellence Awards – March 2011

STAFFORDSHIRE UNIVERSITY

KEMENTERIAN PENDIDIKAN MALAYSIA
Research Funds

FRGS
- Research which produces new theory, concept and idea
- Answer questions relating to “WHY?” and “HOW?”
- Ceiling per project is RM250000

ERGS
- Findings can be expanded to project which is applied in nature
- Answer questions relating to “WHAT?” and “WHERE?”
- Currently, this scheme is not offered.

LRGS
- Fundamental research which require an implementation period of more than 3 years
- For 2011, ceiling per program is RM3 million per year
- Involve Multi Institution, Multi Disciplines

PRGS
- Prototype Development Research Grant Scheme (PRGS)
- Development of research product prior to commercialisation stage
- Ceiling per project is RM500,000. Must be based on FRGS output
# BREAKDOWN OF RESEARCH GRANTS

<table>
<thead>
<tr>
<th>FUND YEAR</th>
<th>FRGS (RM)</th>
<th>ERGS (RM)</th>
<th>LRGs (RM)</th>
<th>PRGS (RM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>81 mill</td>
<td>25 mill</td>
<td>45 mill</td>
<td>11 mill</td>
</tr>
<tr>
<td>2012</td>
<td>219 mill</td>
<td>68 mill</td>
<td>121 mill</td>
<td>30 mill</td>
</tr>
<tr>
<td>TOTAL</td>
<td>300 mill</td>
<td>93 mill</td>
<td>166 mill</td>
<td>41 mill</td>
</tr>
</tbody>
</table>
Eligibility For FRGS Application

- Open to all academics from IPT and research institute:
  - Malaysian citizen; and
  - Permanent academic staff (Professor, Associate Professor, Senior Lecturer, Lecturer); or
  - Contract staff - requires co-researcher who is a permanent academic staff.
  - For non-Malaysians, co-researcher must be Malaysian citizen who is a permanent academic staff.

- Application from foreign branch campus:
  - For non-Malaysians, co-researcher must be Malaysian citizen who is a permanent/tenured academic staff.
  - Funding can only be utilized within Malaysia.

- Principal investigator (PI) is allowed to lead only one project but can be co-researcher in other projects per cycle.
Eligibility For Application

- New application can only be considered if the previous FRGS project has achieved a minimum 75% of the funding/milestone.

- Amount applied must not exceed the ceiling determined by MOHE.

- Every research project must produce:
  i. Three year project - (1) Ph.D or two (2) Masters students
  ii. Two year project - (1) Masters student

- Academic staff on sabbatical/study leave is not allowed to be the principal investigator but can be a co-researcher.

- Principal investigator who has transferred to another university/institute must relinquish the leadership of the project but can still be a co-researcher.
Cluster and Sub-clusters

- Technology and Engineering
  - Mechanical & Manufacturing
  - Electrical and Electronic
  - Civil and Structural
  - Material and Polymer
  - Chemical Engineering and Processing
  - Energy and Green Technology
  - Infrastructure and Transportation
  - Construction and Construction Materials
  - Mineral and Geoscience
  - Aerospace and Geophysics
Cluster and Sub-clusters

ICT

i. Software and Information System

ii. Soft Computing

iii. Computer Networking

iv. Information Security

v. Multimedia

vi. Computer Engineering

vii. Computer Science
Cluster and Sub-clusters

- **Pure Science**
  a. Chemistry
  b. Physic
  c. Biology
  d. Biochemistry
  e. Material Science
  f. Mathematic and Statistic

- **Applied Science**
  a. Chemistry
  b. Physic
  c. Biology
  d. Mathematic and Statistic
  e. Computer Science
  f. Biotechnology
  g. Material Science
Cluster and Sub-clusters

**Clinical and Health Sciences**
- a. Basic Medical Science
- b. Pharmacy
- c. Pharmacology
- d. Medical Microbiology
- e. Parasitology
- f. Pathology
- g. Community Medical Prevention
- h. Surgical Clinical
- i. Medical Clinical
- j. Allied Health Sciences
- k. Dentistry
- l. Nursing Science

**Social Sciences**
- a. Anthropology
- b. Psychology
- c. Sociology
- d. Politic Science
- e. Business and Management
- f. Geography
- g. Economy
- h. Human Ecology
- i. Communication
Malaysian Greater Research Network System

MyGRANTS

Go to http://mygrants.gov.my/

Students, professors, researchers and even professionals use MyGRANTS to seek research grant opportunity, exchange ideas and information:

- Stay informed about research grant application and status
- Control your research identity within your team
- Communicate and exchange knowledge you need to achieve your goal

Sign Up Now?

RMC verification is required to approve the registration

User Login

User Name:
Password:
User Role:
Remember Me:
Forgot your password?
Login Clear

Need help?
Registering your account
In order to create and view application, you need to create your own account.

1. Go to http://mygrants.gov.my/

2. Click “Sign Up Now”
Researcher Registration

Researcher Update Profile

Project Leader Submits Online Grant Application

RMC Approval

RMC Submit Applications To Evaluation Panel

RMC Submits Applications To MOHE

Evaluation Panel Review, Request For Improvements

Evaluation Panel Accept or Reject the Application

Over all MyGrants Application Process
1. After approval, you can login into your Researcher account.
2. Click at Researcher Profile Icon to key in information – Personal Info, Publication, etc.
Executive Summary

Figure 54: Executive Summary

Here you can provide problem statement, objectives, methodology, expected input/output/implication and significance of output from the research program. The information is only limited up to 300 words.
C(viii). Detail Planning

(a) Research background

1. Problem Statement

2. Hypothesis

3. Research Questions

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4. Literature Reviews

5. Relevance to Government Policy, if any

(b) References
Research Objective, Methodology

(c) Objective(s) of the Research

(d) Methodology:
1. Description of Methodology

2. Flow Chart of Research Activities
# Research Activities & Milestones

## 3. Research Activities

<table>
<thead>
<tr>
<th>Activity*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Date*</td>
</tr>
<tr>
<td>End Date*</td>
</tr>
</tbody>
</table>

## 4. Milestones and Dates

<table>
<thead>
<tr>
<th>Description*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year/Month*</td>
</tr>
</tbody>
</table>

**Gantt Chart of Research Activities with Milestones**

**Figure 61: Methodology**
## Financial Budget

<table>
<thead>
<tr>
<th>Budget Type</th>
<th>Description</th>
<th>Year 1</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>11000 - Salary and Wages</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Vot-Total</td>
<td></td>
<td>0</td>
<td>(0.00%) 0</td>
</tr>
<tr>
<td>21000 - Travelling and Transportation</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Local</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub-Total</td>
<td></td>
<td>0</td>
<td>(0.00%) 0</td>
</tr>
<tr>
<td>Overseas</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Sub-Total (Maximum 20%)</td>
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<td>0</td>
<td>(0.00%) 0</td>
</tr>
<tr>
<td>Field work</td>
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<td></td>
<td>0</td>
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<tr>
<td>Sub-Total</td>
<td></td>
<td>0</td>
<td>(0.00%) 0</td>
</tr>
<tr>
<td>Vot-Total (Maximum 40%)</td>
<td></td>
<td>0</td>
<td>(0.00%) 0</td>
</tr>
<tr>
<td>24000 - Rental</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Vot-Total</td>
<td></td>
<td>0</td>
<td>(0.00%) 0</td>
</tr>
</tbody>
</table>
Financial Budget

Vote 11000 - (Salary and allowances for Graduate Research Assistant (GRA))

- Salary and allowances for Graduate Research Assistant (GRA) only.

- Maximum amount for salary and allowances is not more than RM2300 for a PhD and RM1800 for a Masters student or in accordance with the institutions guideline.

Vote 21000 - (Travel and Transportation)

- Travel includes all domestic travel and transportation related to the project.

- Total expenditure for travel and transportation must not exceed 40% of the total project budget.
Overseas travel (subject to approval from Assessment Panel) must meet the following criteria:

- Overseas travel is allowed only if the grant approved is enough. The principal researcher and co-researchers are allowed to travel.

- Overseas travel is only allowed for research paper presentation in conferences/seminars/workshops/colloquium

- Travel destination must be to appropriate places and economical in resources, expertise and technology transfer.

- Overseas travel must be in accordance with the particular institution’s regulation.

- A maximum of RM 15000 or 15% (whichever is lower) of the fund is allowed for attendance to conferences and other activities other than field work.
Financial Budget

- **Vote 29000** – (Professional Services)
  - Services includes printing, hospitality, honorarium, consultation, computer usage, data processing and others related to the research.
  - Special services / One-off expenditure
    - Includes cost to attend courses, short-term programme (once (1) only) to learn specific techniques related to the research.
    - Duration allowed is not more than three (3) months.
    - Total expenditure must not be more than 10% of the approved amount of the grant.

- **Vote 35000** (Equipment and accessories)
  - Only purchase of specialised equipment and accessories (including upgrading of existing equipments) related to the research are allowed.
  - Please provide the list and justifications for all equipment and accessories requested.
  - Total amount requested must not be more than 40% of the amount approved for the grant.
17. Form Submission

**Application Form Submission**

- **Status**: Draft
- **Preview**

*Figure 69: Form Submission Status*

Here User can select the **status** of this application; either it is in **Draft**, or **Complete**.

- **Draft** – Save program proposal as draft and will be editable later
- **Complete** – Save the program proposal and submit it for evaluation
Researchers Responsibilities

(1) To publish in 2 indexed journals
(2) To give acknowledgement for FRGS grant in the publication
(3) To submit Progress Report by 15th Feb and 15th Aug every year
(4) Upon completing the project need to submit final report within 3 months. Hard copy (Hard cover) and Soft copy
(5) To return all equipments which have been purchased and these equipments need to be treated as “Malaysian Government Asset”.
MyRA Requirements For Publications

Publications in Indexed Journals:

1). SCOPUS

2). WOS (ISI Thomson Reuters)

3). Excellence in Research for Australia (ERA) are also acceptable
Scopus is a bibliographic database containing abstracts and citations for academic journal articles.

It covers nearly 21,000 titles from over 5,000 publishers, of which 20,000 are peer-reviewed journals in the scientific, technical, medical, and social sciences (including arts and humanities).[1]

It is owned by Elsevier.
Web of Science (WoS) is an online subscription-based scientific citation indexing

Owned by Thomson Reuters that provides a comprehensive citation search.

History:

The Institute for Scientific Information (ISI) was founded by Eugene Garfield in 1960.

It was acquired by Thomson Scientific & Healthcare in 1992,¹ became known as Thomson ISI

now is part of Thomson Reuters.
Journals which are published by these publishers are NOT ACCEPTABLE:

1). Academic Journal (www.academicjournals.org)
2). Eurojournal (www.eurojournals.com)
3). CG Publishing (www.commongroundpublishing.com)
What Are Conference Proceedings?

• Conferences are a major source of cutting edge research, particularly in science and engineering.

• At conferences, researchers present papers on the research they are doing and obtain feedback from the audience.

• The papers presented in the conference are then usually published in a volume called a conference proceeding.
About ICFAS

Innovative Research in Applied Sciences for a Sustainable Future

About the Conference

The Department of Fundamental and Applied Sciences, Universiti Teknologi PETRONAS (UTP) is pleased to announce the 3rd International Conference on Fundamental and Applied Sciences (ICFAS2014) under the banner of World Engineering, Science & Technology Congress (ESTCON2014) which will be held in Kuala Lumpur, Malaysia. The conference aims to provide a platform for academia and industrialists to showcase their latest findings in the areas of expertise that are related to applied sciences and mathematics. The conference also provides great opportunities for participants to exchange new ideas and experiences, to establish research and business relations with global partners for future collaborations.

Authors are invited to submit original, unpublished work in the following areas but not limited to:

- Nanoscience & Nanotechnology
- Science for Oil and Gas
- Green Technology
- Catalysis
- Computational Methods
- Innovation in Sciences
- Mathematical and Statistical Sciences

Accepted papers are organized in parallel tracks of oral and poster presentation sessions. All accepted papers will be published in conference proceedings indexed by SCOPUS. Selected high quality papers will be published in ISI and SCOPUS indexed journals.
About the Conference

- The 2014 International Conference on Environmental Science and Geoscience is an international forum for scientists, engineers and practitioners to present their latest research and development results in all areas of Environmental Science and Geoscience and their advanced applications in real life. The Conference has a distinguished Organizing Committee, Steering and Program Committee with extensive academic qualifications, ensuring that the conference maintains high scientific standards and has a broad international coverage. All the papers are subject to peer, thorough, strict review by committees’ members or 2 or 3 additional reviewers.

- Download (without username/password) previous proceedings [http://tinyurl.com/eurolibrary](http://tinyurl.com/eurolibrary)

- The Proceedings of the Conference will be published in CD-ROM and Hard-Copy (as book) with all the accepted and registered papers of the conferences and will be indexed in: ISI (Thomson Reuters), ELSEVIER, SCOPUS, Zentralblatt MATH, British Library, EBSCO, SWETS, EMBASE, CAS - American Chemical Society, EI Compendex, Engineering Village, DoPP, GEOBASE, Biobase, TIB/UB - German National Library of Science and Technology, American Mathematical Society (AMS), Insped - The IET, Ulrich's International Periodicals Directory, Scholar Google.

- As in all the Previous Conferences, extended versions of all the accepted papers will be promoted to various Journals depending on the quality of each paper (Indexed in ISI, SCOPUS, ACM, DBLP, EI Compendex, AMS, ACS, CiteSeekX, Zentralblatt, British Library, EBSCO, SWETS, EMBASE, CAS, Scholar Google etc) for publication as well as in various Springer Verlag Books ([Check our Previous Books in Springer](http://tinyurl.com/eurolibrary)).

- Contact us by email: support@europment.org  Short URL: [http://tinyurl.com/esg2014](http://tinyurl.com/esg2014)
Thank You