MOHE FUNDING 2011-2012
RMK10

Dec 2010
Overview

- MOHE’s initiative
- 9th Malaysia Plan Budget for R&D Grant
- 10th Malaysia Plan Budget for R&D Grant
  - Type of Grant
  - Niche Areas
  - Application
  - MOHE’s Expected outcome
- MOHE Comments - FRGS rejected application
Efforts toward R&D excellence at MOHE: “CHAMPION FOR FUNDAMENTAL RESEARCH”

• Inculcating Excellent Research Culture
MOHE AIM

- Establishment of Research Universities (RU) & APEX Univ.
- Establishment of Higher Institution Centres of Excellence (HiCOE)
- Champion for Fundamental Research through the Fundamental Research Grant Scheme (FRGS)
- Promoting and propagating research-based innovations
- Commercialisation of R&D products

<table>
<thead>
<tr>
<th>Fund Type</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Fund</td>
<td>(Applied)</td>
<td>RM800 juta</td>
</tr>
<tr>
<td>Techno Fund</td>
<td>(Pre-comm)</td>
<td>RM1.3 billion</td>
</tr>
<tr>
<td>Innovation Fund</td>
<td>(Pre-comm)</td>
<td>RM200 juta</td>
</tr>
<tr>
<td>FRGS</td>
<td>(Fundamental)</td>
<td>RM285 juta</td>
</tr>
<tr>
<td>Others</td>
<td>(Private &amp; International)</td>
<td>RM516 juta</td>
</tr>
</tbody>
</table>

**Total**  
**RM3.101 billion**
## No of Application, Approved & Rejected 2006 - 2010

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Application</th>
<th>Total Approved</th>
<th>Total Rejected</th>
<th>Total Amount Approved (RM mil)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>2,317</td>
<td>1,260 (54.38%)</td>
<td>1,056 (45.62%)</td>
<td>67.89</td>
</tr>
<tr>
<td>2007</td>
<td>2,150</td>
<td>1,177 (54.7%)</td>
<td>968 (45.3%)</td>
<td>82.86</td>
</tr>
<tr>
<td>2008</td>
<td>1,863</td>
<td>436 (23.4%)</td>
<td>1,427 (76.6%)</td>
<td>42.31</td>
</tr>
<tr>
<td>2009</td>
<td>2,512</td>
<td>611 (24.3%)</td>
<td>1,901 (75.7%)</td>
<td>26.57</td>
</tr>
<tr>
<td>2010/1</td>
<td>3,496</td>
<td>1,160 (33.1%)</td>
<td>2,292 (65.5%)</td>
<td>52.43</td>
</tr>
<tr>
<td>KIV 2010/1</td>
<td></td>
<td>44 (1.2%)</td>
<td>2,292 (65.5%)</td>
<td>2.24</td>
</tr>
<tr>
<td>2010/2</td>
<td>3,559</td>
<td>500 (14%)</td>
<td>2,393 (67.2%)</td>
<td>24.97</td>
</tr>
<tr>
<td>KIV 2010/2</td>
<td></td>
<td>666 (18.7%)</td>
<td>2,393 (67.2%)</td>
<td>36.96</td>
</tr>
<tr>
<td>Grand Total</td>
<td>15,897</td>
<td>5,854 (36.8%)</td>
<td>10,043 (63.2%)</td>
<td>336.23</td>
</tr>
</tbody>
</table>
FRGS

Evolution of FRGS Grant

1. 1<sup>ST</sup> Phase (2007 – 2008): Enhancing Research Culture

2. 2<sup>nd</sup> Phase (2009 – 2010): Inculcating Research Quality

3. 3<sup>rd</sup> Phase (2011 - 2012): Promoting Research Excellence
**10th Malaysia Plan (2011 – 2012): R&D Grant**

EPU Approved amount for 2011 – 2012

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Fundamental Research (FRGS)</td>
<td>RM 500 million</td>
</tr>
<tr>
<td>b) Sub-program high impact cluster</td>
<td>RM 200 million</td>
</tr>
<tr>
<td>c) Sub-program research incentive</td>
<td>RM 41 million</td>
</tr>
<tr>
<td>Total</td>
<td>RM 741 million</td>
</tr>
<tr>
<td>Bil</td>
<td>Name &amp; Scope of Project</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------------------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td><strong>Fundamental Research Grant Scheme (FRGS)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>Exploratory Research Grant Scheme (ERGS)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Long-term Research Grant Scheme (LRGS)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Prototype Research Grant Scheme (PRGS)</strong></td>
</tr>
<tr>
<td>3</td>
<td><strong>Research Incentive (Insentif Penyelidikan)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td><strong>KPT special Project (Projek Khas KPT)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>
10th Malaysia Plan (2011 – 2012): R&D Grant

4 Funding Categories

1. **FRGS** - Fundamental Research Grant Scheme

2. **ERGS** - Exploratory Research Grant Scheme

3. **LRGS** - Long Term Research Grant Scheme

4. **PRGS** - Prototype Research Grant Scheme
Determination of Research Category

Why? & How?

Long-Term

What? & Where?

Prototype-Development

FRGS

ERGS

LRGS

PRGS
1) FRGS

Fundamental Research Grant Scheme

- WHY & HOW
- research that can produce theory, concept or new ideas
- discipline-based research
- duration max 3 years
- Ceiling amount RM250K
- payment RM125K per year
2) ERGS

Exploratory Research Grant Scheme

- WHAT & WHERE
  - problem-based research, inter-discipline (within institution)
  - more of expansion of ideas from the fundamental concept
  - findings can be expanded to applied
  - duration 2-3 years
  - ceiling amount RM300k
  - payment RM100k per year
3) LRGS

Long Term Research Grant Scheme

- fundamental research that need more than 3 years
- Must be Multi-Institutional and Multi-Disciplinary
- problem-based research, inter-discipline, inter-institution
- programme/cluster-based
- Duration 3-5 years (at least 3 years)
- Ceiling fund RM3million/project
- Type:
  (i) top-down (programme leaders only from RUs, members from other IPT can be project leaders within the programme)
  (ii) bottom-up (leaders can be from other IPTs)
4) PRGS

Prototype Research Grant Scheme

- **prototype** development (lab prototype) for pre-commercialization
- Duration – 1-2 years
- Ceiling fund - RM500k /project (one off, lump sum)
High Impact Niche Platform

1. Global warming *(Pemanasan Global)*
2. Infectious Disease *(Penyakit Berjangkit)*
3. Tropical Medicine *(Perubatan Tropika)*
5. Food Sufficiency *(Kecukupan Makanan)*
6. Advanced & Value Added Manufacturing *(Pembuatan Termaju dan Tambah Nilai)*
7. ICT
IPT Role in Niche Platform of High Impact Research

RU

APEX

FRGS, ERGS, LRGs, PRGS

IPT & Other Institutions
Application Opening by MOHE

Mid-Jan 11 - ERGS and LRGs
End-Feb 11 - FRGS and PRGS

FRGS – using MOHE form
ERGS – using MOHE form
PRGS – using MOHE form
LRGS – by proposal

MOHE Guidelines & Confirmed Forms expected to be available in MOHE website by end Dec 10
Application – FRGS, ERGS & PRGS

- Fill up form + flow chart + milestone + cv
- Go through internal screening at faculty level
  - ISC form (1 evaluator)
  - Recommendation from faculty form
- Revise proposal
- Submit to IPSR (hardcopy)
  - Make sure the proposal submitted is the revised proposal after internal screening
- Softcopy – will advise once receive direction from MOHE
Application – LRGS

- MOHE form not available yet
- Proposal preparation 3-5 pages
- Go through internal screening at faculty level
- Submit to IPSR
- IPSR submit to MOHE
- MOHE will arrange presentation / interview session
**Notes**

- **Fundings/Principal investigator**
  - more than one but for different categories
  - Eg. 1 FRGS + 1 ERGS

- **Expatriate** - allowed but co-researcher must be permanent local academics

- **details** at research portal
  [http://research.utar.edu.my/](http://research.utar.edu.my/)
10th Malaysia Plan (2011 – 2012): R&D Grant

Expected Outcome
(Jangkaan Hasil Dana Penyelidikan)

Human Capital (Modal Insan)

Research Findings (Penemuan Penyelidikan)

1700 PhD
6400 papers
500 IP
MOHE Comments - Rejected Application

- **Objective** – not clearly spelled out, not in proper order, not directly linked to any hypothesis
- **Literature review** - does not raise the research issue with regards to suggested approach
- **Methodology** too vague & incoherent, inadequate, too brief, not properly described
- Project coverage is limited
- **Scope** too ambitious
- Researcher has not identified the specific problem
- **No coherent research plan/purpose** of the study
MOHE Comments - Rejected Application

• Fundamental aspect not fully expanded
• Not fundamental because this proposal is still at the exploratory level
• No fundamental element, no leading to new theory/model/idea
• No new findings, common application based research
• Proposal does not discuss the novelty & fundamental aspect that differentiate it from the previous works
• Does not highlight the significance of output of this study
• Technology is well established
• Has been researched before
MOHE Comments - Rejected Application

• **Cost** - Not cost effective on the actual application, Cost effectiveness has not been fully explained and justify practicality of the end product
• **PI only master holder**, not suitable to supervise project and the postgrad, furthermore the research used for PhD work
• **proposal lack research element**
• **Researcher is co author of several publication but the principal author is not collaborator in this new submission**
## FRGS: Applications Breakdown from UTAR

<table>
<thead>
<tr>
<th></th>
<th>Soc sc / Arts</th>
<th>S&amp;T</th>
<th>Total</th>
<th>Amt approved (RM)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1/2010</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>15 (23.8%)</td>
<td>48 (76.2%)</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>Approved</td>
<td>3 (21.4%)</td>
<td>11 (78.6%)</td>
<td>14 (22.2%)</td>
<td>525,000.00</td>
</tr>
<tr>
<td><strong>2/2010</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>16 (24.2%)</td>
<td>50 (75.8%)</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>Approved</td>
<td>0</td>
<td>7 (100%)</td>
<td>7 (10.6%)</td>
<td>348,640.00</td>
</tr>
<tr>
<td>KIV</td>
<td>3 (21.4%)</td>
<td>11 (78.6%)</td>
<td>14 (21.2%)</td>
<td></td>
</tr>
</tbody>
</table>
Briefing by MOHE

**Tips on how to secure funding from MOHE**

**Speaker** : Prof Ir Dr Mohd Jailani  
**Date/Time** : 11 January 2011, 10 am - 12 pm  
**Venue** : DK3, FES, UTAR Setapak, KL  
**Admission** : Free  
**Transportation** : provided from PJ, Sg Long & Kampar.  

**Registration (Online)** : before 31 December 2010  
UTAR Website (R&D Activities)  
Research Portal and IPSR Website