UTM CRG 2018

CRG10 Tomography Lab-On-Chip For Microsample Image Reconstruction

Projects:

• CGR10.1 Electrode-Based Tomography Lab-On-Chip Design and Development (UTM)
• CRG10.2 Data Acquisition System for Tomography Lab-On-Chip (UniMAP)
• CRG10.3 Tomography Lab-on-Chip Image Reconstruction (UTHM)
• CRG10.4 Tomography Lab-on-Chip Modelling and Characterization (UMP)
# Projects Information

<table>
<thead>
<tr>
<th>Project (Focus Area)</th>
<th>Project Leader (National)</th>
<th>Institution / Agency</th>
<th>PL UTM (RADIS)</th>
<th>Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project 1 (LOC)</td>
<td>Dr Leow Pei Ling</td>
<td>UTM</td>
<td>Dr. Leow Pei Ling</td>
<td>RM 40k</td>
</tr>
<tr>
<td>Project 2 (Control and DAQ)</td>
<td>AP Ir. Dr. Mohd Hafiz Fazalul Rahiman</td>
<td>UniMAP</td>
<td>Dr. Jaysuman Pusppanathan</td>
<td>RM 20k + RM20k</td>
</tr>
<tr>
<td>Project 3 (Image Reconstruction)</td>
<td>Dr. Elmy Johana Mohamad</td>
<td>UTHM</td>
<td>Dr. Anita Ahmad</td>
<td>RM 20k + RM20k</td>
</tr>
<tr>
<td>Project 4 (Numerical Simulation &amp; Characterization)</td>
<td>Dr. Yasmin Abdul Wahab</td>
<td>UMP</td>
<td>Dr. Rashidah Arsat</td>
<td>RM 20k + RM20k</td>
</tr>
</tbody>
</table>
# Timeline and Planning

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
<th>Remarks (<em>What I did</em>)</th>
</tr>
</thead>
</table>
| Sept 2017      | Grant Briefing by RMC                                | • Brainstorming of ideas  
• Call/ Whatsapp friends, Check phone book and etc.  
• Explain to potential collaborators the plan/ requirements. |
| 1 Oct – 31 Dec 2017 | Opening for CRG application in RADIS                 | • Prepare offline a [5 pages proposal](Appendix 1) referring to RADIS requirement.  
• Get Letter of Intent (LOI) from all collaborators. |
| Feb 2018       | Grant Proposal Presentation/ Pitching                | Prepare Slides and informing all members in the CRG.                                  |
| March 2018     | Announcement of Receiving of Grant                    | Start MOA ([Appendix 2](#)) documents preparation (template is provided)             |
| April 2018 – Dec 2018 | • MOA Preparation (double check on the availability of NCs / TNCs/ CEOs and ...)  
• Registration on RADIS  
- Letters/ email to all collaborators |
| Aug 2018       | • Presentation of MOA – JPU (Signature by all parties by Post) |
| 1 Oct 2018     | • RADIS registration completed. Grant CRG10 activated. |
| 5 Dec 2018     | • Stamping of MOA (Submitted to RMC all copies)        |
Explaining The Concept

Program (RM100k + RM60k)

- Project 1 (RM40k)
- Project 2 (RM20k + RM20k)
- Project 3 (RM20k + RM20k)
- Project 4 (RM20k + RM20k)

inovatif • entrepreneurial • global
Funding Concept

(Completion of Disbursement before 30 April 2018)

UTM Project 1: RM 40K

RM 20K

UTM Project 1: RM 40K

Collaborating transaction

Funding park & audit by UTM

Funding park & audit by Collaborating Universities

Total: RM 20K + RM 20K

Total: RM 20K + RM 20K

Total: RM 20K + RM 20K

inovatif • entrepreneurial • global
Video: Explaining The Concept

CRG 2018
Program Title: CRG10 Tomography Lab-On-Chip For Microsample Image Reconstruction

Projects:
• CGR10.1 Electrode-Based Tomography Lab-On-Chip Design and Development (UTM)
• CRG10.2 Data Acquisition System for Tomography Lab-On-Chip (UniMAP)
• CRG10.3 Tomography Lab-on-Chip Image Reconstruction (UTHM)
• CRG10.4 Tomography Lab-on-Chip Modelling and Characterization (UMP)

www.utm.my innovative • entrepreneurial • global
Letter of Intent

Faculty of Electrical Engineering
Universiti Teknologi Malaysia
8130 Skudai, Johor.
(Attn: Dr. Leow Pei Ling)

Dear Madam,

LETTER OF INTENT TO COLLABORATE IN UTM COLLABORATIVE RESEARCH GRANT APPLICATION

I am pleased to notify you of our university, Universiti Malaysia Perlis (UniMAP) intent to become the research collaborator in your UTM Collaborative Research Grant (CRG) application with project reference number PY/2017/02425 entitled "Tomography Lab-On-Chip For Microsample Image Reconstruction".

2. We envisage the integration of tomography system into microdevice platform will able to launch a new innovative research field that benefits to future Lab on Chip (LOC) applications. Therefore, we are keen to establish collaboration with UTM in the research of Tomography LOC. We will support the research by contributing a matching grant as stated in the requirement of the CRG application. Besides that, we will also provide laboratory and research support in making this project a successful one.

3. We look forward to participate in the research project.
LOI

Dear [Name],

LETTER OF INTENT TO COLLABORATE IN UTM COLLABORATIVE RESEARCH GRANT APPLICATION

I am pleased to notify you of our university, Universiti Teknologi Malaysia (UTM) interest to become the research collaborator in your UTM Collaborative Research Grant (CRG) application with project reference number [Project Number].

We envisage the integration of tomography system into LOC will be able to launch a new innovative research field that benefits LOC applications. Therefore, we are keen to establish a collaborative relationship with the research team and contribute to the success of the project.

We have also provided financial support and in-kind contributions to support the successful completion of the project.

Thank you.

Yours Faithfully,

[Signature]

[Name]

Senior Lecturer

Faculty of Electrical & Electronics Engineering

Universiti Malaysia Pahang

36000 Pekan

Pahang

[Phone Number]