|  |
| --- |
| **UNIVERSITI MALAYA RESEARCH EXCELLENCE GRANT 2023***[Incomplete Form will be rejected]**Note: Please ensure that this document is uploaded online via* [*Ms Forms UM 365*](https://forms.office.com/r/Bbdc5sgAjX) |
| **PRINCIPAL INVESTIGATOR (PI)**  |   |
| **PROJECT TITLE**  |   |
| **NEXT APPOINTED LEADER** |   |
| **UM New Centre of Excellence (UMCoE) [Please select one (1)]**  |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. | Artificial Intelligence and Emerging Technologies | ( ) | 10. | Halal Research, Training and Education  | ( ) |
| 2. | Innovative Medical Devices  | ( ) | 11. | Smart Mobility  | ( ) |
| 3. | Value Creation    | ( ) | 12. | Aerospace Innovation  | ( ) |
| 4. | Micro, Small and Medium Enterprise  | ( ) | 13. | Rare Earth Elements  | ( ) |
| 5. | Climate Preparedness and Community Resilience  | ( ) | 14. | Natural Products, Biopharmaceuticals and Precision Medicine   | ( ) |
| 6. | Environmental, Social & Governance (ESG)  | ( ) | 15. | Future Sustainable Energy  | ( ) |
| 7. | Food Security & Intelligent Farming  | ( ) | 16. | Biodiversity for Sustainable Economy  | ( ) |
| 8. | Urban Ecosystem, Culture and Heritage  | ( ) | 17. | Quantum Information Science and Technology  | ( ) |
| 9. | Future Studies  | ( ) | 18. | Digital Transformation of Health  | ( ) |

 |
| **A**  | **TITLE OF PROPOSED RESEARCH** |
| **A (i)**  | **Title of Proposed Research Project:**    |
| **B**  | **DETAILS OF PRINCIPAL INVESTIGATOR (PI)** |
| **B (i)**  |

|  |  |  |
| --- | --- | --- |
| **Name of PI** | **:** |  |
| **MyKad / Passport Number** | **:** |  |
| **PTj / Faculty / Department / Centre / Unit** **(Please provide full address):** | **:** |  |
| **Email Address** | **:** |  |
| **Office Telephone No.** | **:** |  |
| **Handphone No.** | **:** |  |

 |
| **B (ii)**    | **Position (Please tick** *(√)***):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Associate Professor |  | Senior Lecturer  |  | Lecturer  |

 |
| **B (ii)** | **Type of Service (Please tick** *(√)***):**

|  |  |
| --- | --- |
|   |  Permanent  |
|   |  Contract  Contract Expiry Date:    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_      |

  |
| **C** | **DETAILS OF NEXT APPOINTED LEADER** |
| **C (i)**  |

|  |  |  |
| --- | --- | --- |
| **Name of Next Appointed Leader** | **:** |  |
| **MyKad / Passport Number** | **:** |  |
| **PTj / Faculty / Department / Centre / Unit (Please provide full address):** | **:** |  |
| **Type of Service** | **:** | **Permanent** |
| **Email Address** | **:** |  |
| **Office Telephone No.** | **:** |  |
| **Handphone No.** | **:** |  |

 |
| **C (ii)**    | **Position (Please tick** *(√)***):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Associate Professor |  | Senior Lecturer  |  | Lecturer  |

 |
| **D**  | **RESEARCH INFORMATION** |
| **D (i)**  | **Name & Location of Research Institute/Centre/Laboratory/Group:**  |
| **D (ii)**   | **Duration of Research Project (24 months or 36 months):**  **Duration: \_\_\_\_\_\_\_\_\_\_\_ months**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **From:**  |  January | 2024  |   | **To:**  |   |   |
|   | Month  | Year  |   |   | Month  | Year  |

    \*Estimated start date  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **D (iii)**  | **DETAILS OF CO-RESEARCHERS** 1. **UM Research Team Track Record**(Including Next Appointed Leader)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **PTj / Faculty / Department / Centre / Unit** | **H-Index** | **Citations** | **No. of Publications\*\*** | **Role / Contribution**(Please specify) |
| 1. |   |   |   |   |   |   |
| 2. |   |   |   |   |   |   |
| 3. |   |   |   |   |   |   |
| 4. |  |  |  |  |  |  |

 1. **External Collaborator (MUST be relevant to the proposed research)**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Institution / Industry / Government Agency /** **Non-governmental Organization** | **Name of Researcher /** **Person in Charge (if any)** | **Role/ Contribution**(Please specify) |
| 1. |   |   |   |
| 2. |   |   |   |
| 3. |  |  |  |

  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **D (iv)**  | **RESEARCH OUTPUT**Every research project applied for must produce publication and human capital development. The following are expected research output:1. **Publication**

|  |  |
| --- | --- |
| **Research Output** | **Please tick (√)** |
| 1. Sciences
 | : | Three (3) Web of Science indexed publications of which one must be Q1 (research article). |  |
| 1. Social Sciences, Arts and Humanities
 | : | Three (3) Scopus-indexed publications of which one (1) must be Q1 (research article); **OR** One (1) Q1 Scopus-indexed publication (research article) and one (1) book (only research book(s) published by international renowned Publishers and those in the MAPIM list will be accepted). |  |

1. **Human Capital Development**

|  |  |
| --- | --- |
| **Research Output** | **Please tick (√)** |
| 1. 36-month project
 | : | Required to produce one (1) PhD student. |  |
| 1. 24-month project
 | : | Required to produce one (1) Master’s student. |  |

**Note:** Incentive funding may be considered for the achievement beyond committed research output. Researchers who fail to produce committed research outputs may not be considered for any new UM internal grant applications for a period of up to 3 years.  |
| **E**  | **RESEARCH DETAILS**  |
| **E (i)**      | **Detailed Proposal of Research Project:** 1. **Executive Summary (maximum 300 words)**(Please state in the form).
 |
| 1. **Lay Abstract** (Please state in the form).

(Reminder: A lay abstract or lay summary is a summary of complex research in plain, everyday language. It is important to prepare a lay abstract to tell the story of your research in simple, non-technical language. The lay abstract should be distinct from the scientific one and no more than 150 words). |
| 1. **Graphical Abstract (maximum 1 page-A4)** (Please enclose in the Appendix).
 |
| 1. **Research background including Introduction /Hypothesis /Research Questions and Literature Reviews** (Please state in the form).
 |
| 1. **SMART Objective (s) of the Research***\*\**

|  |  |
| --- | --- |
| **SMART**  | i.e., **S**pecific, **M**easurable, **A**chievable, **R**ealistic and **T**imely  |
| **SPECIFIC:**  | outline in a clear statement precisely what is required.  |
| **MEASURABLE**:  | include a measure to enable you to monitor progress and to know when the objective has been achieved.  |
| **ACHIEVABLE**:  | objectives can be designed to be challenging, but it is important that failure is not built into objectives. Employees and managers should agree to the objectives to ensure commitment to them.  |
| **REALISTIC:**  | focus on outcomes rather than the means of achieving them  |
| **TIMELY**: (or time-bound) | agree with the date by which the outcome must be achieved.  |

  |
| 1. **Methodology**:
2. Description of Methodology (Please state in the form)
3. Research Flow Chart (Please enclose in the Appendix)
4. Research Gantt Chart and Milestone (Please enclose in the Appendix)
 |
|   | 1. **Impact Statement on Quintuple Helix** (Please state in the form)

(please delineate/describe expected research deliverables on Society, Academia, Government, Industry and Environment. Maximum 200 words) |
| **E (ii)**  | **Risk Assessment**Applicants are required to identify research risks and submit a risk assessment plan for research project.

|  |  |
| --- | --- |
| **Description of risk (Low/Medium/High)**  | **Proposed risk-mitigation measures**  |
|   |  |
|   |   |
|   |   |
|   |   |

 |

|  |  |
| --- | --- |
| **F** | **SUMMARY OF OVERALL BUDGET**  |
|       | **Please indicate your estimated budget for this research and specific details of expenditure according to the guideline**  |
| **Budget details** | **Amount requested (RM)** |
| **Year 1 (RM)****(Please specify for each vote)** | **Year 2 (RM)****(Please specify for each vote)** | **Year 3 (RM)****(Please specify for each vote)** | **Total (RM)** |
| **Vote 11000 –****Salary and wages** |   |   |   |  |
| **Vote 21000 –****Traveling and Transportation** |   |   |   |  |
| **Vote 24000 –****Rental** |   |   |   |  |
| **Vote 27000 –****Research Materials & Supplies** |   |   |   |  |
| **Vote 28000 –Maintenance and Minor Repair Services** |   |   |   |  |
| **Vote 29000 –****Professional Services** |   |   |   |  |
| **TOTAL AMOUNT (RM)** |  |  |  |  |

|  |  |
| --- | --- |
| **G** | **DECLARATION BY PRINCIPAL INVESTIGATOR** **(Please tick *(√)*):**  |
|       | **I hereby declare that:**  |
|  | 1. **All information stated here is accurate, UM has the right to reject or to cancel the offer without prior notice if there is any inaccurate information given.**
 |
|  | 1. **Application of this research is presented for the UMREG 2023**
 |
|  | 1. **Application of this research is also presented for the other research grant/s** **(grant’s name and total amount)**
 |
|  | 1. **Have read, understood, and will implement all requirements stipulated in the UM Safety & Research Handbook and Code of Research Ethics. Failure to do so will result in disqualification of my application.**
 |
|    |

|  |  |
| --- | --- |
| **Principal Investigator’s Name & Signature:** |  |
| **Date:** |

Signature of all team members: |
| **Name** | **Signature** |
|   |   |
|   |   |
|   |   |
|  |  |
|  |  |
|  |  |

**Note: THE APPLICATIONS SUBMITTED WILL BE TREATED IN FULL CONFIDENCE. THE DECISION OF THE UM COMMITTEE PANEL IS FINAL.**