

**APPLICATION FORM – FULL PROPOSAL**

**LONG TERM RESEARCH GRANT SCHEME-**

**JEJAK SARJANA ULUNG (LRGS-JSU)**

***Skim Geran Penyelidikan Jangka Panjang-***

***Jejak Sarjana Ulung (LRGS-JSU)***

**(Version 1/2021)**

**JABATAN PENDIDIKAN TINGGI KEMENTERIAN PENGAJIAN TINGGI MALAYSIA**

|  |  |  |
| --- | --- | --- |
| **A. Application Details** | | |
| **A(i). Selected Grant Scheme** | **LRGS-JSU TAHUN 2021** | |
| **A(ii). Title of Proposed Research Project** |  | |
| **A(iii). Total Proposed Budget (RM)** |  | |
| **A(iV). Keywords** |  | |
|  | | |
| **B. Details of Project Leader** | | |
| **B(i). Name** | |  |
| **B(ii). Nationality** | |  |
| **B(iii). IC/Passport No.** | |  |
| **B(iv). Age** | |  |
| **B(v). Position** | |  |
| **B(vi). Institution** | |  |
| **B(vii). Faculty/Centre** | |  |
| **B(viii). Unit/Department** | |  |
| **B(ix). Office Phone No.** | |  |
| **B(x). Handphone No.** | |  |
| **B(xi). E-mail Address** | |  |
| **B(xii). Date of First Appointment with this Institution** | |  |
| **B(xiii). Type of Service (Permanent/Contract)** | |  |
| **B(xiv). Scopus H-Index** | |  |
| **B(xv). No. of Citation** | |  |
|  | | |

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| --- | --- |
| **C. Research Information** | |
| **C(i). Research Priority Area** | |
| **Research Priority Area (Please choose one (1) only):**  **Physics**  **Chemistry**  **Physiology and Medicine**  **Economic Science**  **Knowledge and Discovery of Frontiers** | |
| **C(ii). Research Domain** | |
| **Research Domain (Please choose one (1) only):**  **Pure and Applied Sciences**  **Technology and Engineering**  **Clinical and Health Sciences**  **Social Sciences**  **Arts and Applied Arts**  **Natural and Cultural Heritage**  **Information and Communication Technology** | |
| **C(iii). Research Cluster** | |
| **Research Cluster (Please choose one (1) only):**  **Food Safety and Security**  **Basic Infrastructure**  **Climate Change and Environment**  **Health**  **Education and Knowledgeable Civil Society**  **National Security**  **Social and Economic Wellbeing**  **Frontier Technologies and Advanced Manufacturing** | |
| **C(iv). 10-10 Malaysian Science, Technology, Innovation and Economy (MySTIE) – based on 10 Socio-Economic Drivers** | |
| **MySTIE Socio-Economic Driver (Please choose one (1) only):**  **Energy**  **Business and Financial Services**  **Culture, Arts and Tourism**  **Medical and Healthcare**  **Smart Technology and Systems (Next Generation Engineering and Manufacturing**  **Smart Cities and Transportation**  **Water and Food**  **Agriculture and Forestry**  **Education**  **Environment and Biodiversity** | |
| **C(v). Shared Prosperity Vision 2030 (SPV 2030)** | |
| **Shared Prosperity Vision (Please choose one (1) only):**  **Islamic Finance Hub 2.0**  **Digital Economy**  **Industrial Revolution 4.0**  **Content Industry**  **ASEAN Hub**  **Halal and Food Hub**  **Commodity Malaysia 2.0**  **Logistic, Transportation and Sustainable Mobility**  **Coastal and Maritime Economy**  **Centres of Excellence**  **Renewable Energy**  **Green Economy**  **Smart and High Value Agriculture**  **Advanced and Modern Services**  **Malaysia Truly Asia** | |
| **C(vi). Sustainable Development Goals (SDGs)** | |
| **SDG (Please choose one (1) only):**  **No Poverty**  **Zero Hunger**  **Good Health and Well-being**  **Quality Education**  **Gender Equality**  **Clean Water and Sanitation**  **Affordable and Clean Energy**  **Decent Work and Economic Growth**  **Industry, Innovation and Infrastructure**  **Reduced Inequalities**  **Sustainable Cities and Communities**  **Responsible Consumption and Production**  **Climate Action**  **Life below Water**  **Life on Land**  **Peace, Justice and Strong Institutions**  **Partnerships for the Goals**  **Societal Harmony and Happiness** | |
| **C(vii). Location of Research** | | |
| |  | | --- | | **Location** | |  | | | |
| **C(viii). Duration of this Research** | | |
| |  |  | | --- | --- | | **From** | **1st October 2021** | | **To** |  | | **Duration** |  | | | |
| **C(ix). Research projects (national) that have been completed or are on-going by project leader in the last five years** | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Title** | **Grant Name** | **Role**  **(Leader/**  **Member)** | **Progress (%)** | **Status** | **Duration** | **Start Date** | **End Date** | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | | |
| **C(x). International grants that have been received by the project leader** | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Title** | **Grant Name** | **Role (Leader/ Member)** | **Progress (%)** | **Status** | **Duration** | **Start Date** | **End Date** | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | | |
| **C(xi). Academic publications that have been published in the high-impact journal (Top 1%/Top 10% in Science Citation Index-Expended (SCIE) or Social Science Citation Index (SSCI)) by the project leader in the last five years** | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Title** | **Main Author/Corresponding Author/Co-Author** | **Name of Journal** | **Year** | **Quartile (Top)** | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |   **Please provide three (3) journal articles as evidence** | | |
| **C(xii). International collaborations that have been engaged by the project leader** | | |
| **Collaboration might be in the form of co-authorship, co-researcher or any other significant and relevant collaborations**   |  |  |  |  | | --- | --- | --- | --- | | **International Research Laboratories/Agency/Institution** | **Form of Collaboration** | **Details of Publication/Research/etc** | **Role (Leader/ Member)** | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | |
| **C(xiii). Mentor / Co-Mentor** | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Name** | **IC/Passport Number** | **Faculty/School/ Centre/Unit/Department** | **Position** | **Area of Expertise** | **Role**  **(Mentor/**  **Co-Mentor)** | |  |  |  |  |  |  | |  |  |  |  |  |  | | | |
| **C(xiv). Research projects (national and international) that have been completed or are on-going by Mentor and Co-Mentor (if any) in the last five years** | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Title** | **Grant Name** | **Role**  **(Leader/Member)** | **Progress (%)** | **Status** | **Duration** | **Start Date** | **End Date** | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | | |
| **C(xv). Academic publications that have been published by the Mentor and Co-Mentor (if any) in the last five years (top 20 articles (Top 1%/Top 10%/Highly-cited))** | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Title** | **Main Author/Corresponding Author/Co-Author** | **Name of Journal** | **Year** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | |
| **C(xvi). Other Researchers (Limited to six (6) project members including Co-Mentor, if any)** | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Name** | **IC Number** | **Faculty/School/ Centre/Unit/Department & Institutions** | **Position** | **Area(s) of Expertise** | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | |
| **C(xvii). Executive Summary of Research Proposal** | | |
| **(Please include elements of breakthrough research, problem statement, objectives, research methodology, expected output/outcomes/implication, and significance of output from the research project)** | | |
| **C(xviii). Detail Planning** | | |
| **(a) Research Background** | | |
| **1. Problem Statement** | | |
| **2 Elements of Breakthrough Research** | | |
| **3. Hypothesis** | | |
| **4. Research Questions** | | |
| **5. Literature Reviews** | | |
| **6. Relevance to Government Policy (if any)** | | |
| **(b) References** | | |
|  | | |
| **(c) Objective(s) of the Research** | | |
|  | | |
| **(d) Methodology** | | |
| **1. Description of Methodology** | | |
| **2. Data Sharing Plan** | | |
|  | | |
| **3. Flow Chart of Research Activities** | **Flowchart.pdf** | |
| **4. Research Activities** | | |
| |  |  |  | | --- | --- | --- | | **Activity** | **Start Date** | **End Date** | |  |  |  | |  |  |  | | | |
| **5. Milestones** | | |
| |  |  |  | | --- | --- | --- | | **Description** | **Date** | **Cumulative Project Completion Percentage (%)** | |  |  |  | |  |  |  | | | |
| 6. Gantt Chart of Research Activities with Milestones | | |
|  | | |
| (e) Expected Results/Research Output/Benefit | | |
| 1. **Breakthrough Research/Novel Theories/New Findings/Knowledge** | | |
| 1. **Impact Statement on Quintuple Helix (please delineate/describe expected research deliverables on Society, Academia, Government, Industry and Environment)** | | |
|  | | |
| 1. **Research Publications (Number of articles to be published in high-impact journals (Q1 Web of Science (WoS) or Top 1% in Science Citation Index-Expended (SCIE) or Social Science Citation Index (SSCI)). The total number of publications must commensurate with the research scope).** | | |
| **Total Number of Publications:**   |  |  |  | | --- | --- | --- | | **Indexing Body** | **Number of Publications** | **Name of Journal** | | **Indexed Journal** | | **Q1 WoS** |  |  | | **SCIE** |  |  | | **SSCI** |  |  | | | |
| 1. **Talent Development (by research)** | | |
| **Total Number of Postdoctoral (by research):**  **Total Number of PhD Student(s) (by research):**  **Remark (if any):** | | |
| 1. **International Collaborations** | | |
|  | | |
| 1. **Specific or Potential Applications of the Research Findings (if any)** | | |
| **Description:** | | |
| 1. **Intellectual Properties (IPs) (if any)** | | |
| **Total Number of Proposed IPs:** | | |
| **D. Access to Equipment(s) & Material(s)** | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **Description** | **Owner** | **Location** | **Address** | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | |

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| **E. Budget** |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Budget Type** | **Description** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Grand Total** | | **11000 – Allowance** |  |  |  |  |  |  | |  | **Postdoctoral (Full-time Research Mode)** |  |  |  |  |  | |  | **GRA PhD (Full-time Research Mode)** |  |  |  |  |  | | **Vot-Total** | |  |  |  |  |  | | | **21000 - Travelling and Transportation (40%)** |  |  |  |  |  |  | | **Local** | **Local Conferences** |  |  |  |  |  | | **Sub-Total** | |  |  |  |  |  | | **Overseas** | **Attachment Program**  **(once a year for one person only)** |  |  |  |  |  | | **Sub-Total** | |  |  |  |  |  | | **Field work** |  |  |  |  |  |  | | **Sub-Total** | |  |  |  |  |  | | **Vot-Total** | |  |  |  |  |  | | **24000 - Rental** |  |  |  |  |  |  | | **Vot-Total** | |  |  |  |  |  | | **27000 - Research Materials and Supplies** |  |  |  |  |  |  | | **Vot-Total** | |  |  |  |  |  | | **28000 - Maintenance and Minor Repair Services** |  |  |  |  |  |  | | **Vot-Total** | |  |  |  |  |  | | | **29000 - Professional Services** |  |  |  |  |  |  | | **Services/Consultancy** | **Editing and Proofreading Articles** |  |  |  |  |  | |  | **Journal Page Charges**  **(WoS/SCIE/SSCI)** |  |  |  |  |  | | **Sub-Total** | |  |  |  |  |  | | **Short term course (5%)** |  |  |  |  |  |  | | **Sub-Total** | |  |  |  |  |  | | **Vot-Total** | |  |  |  |  |  | | **35000 - Accessories and Equipment (40%)** |  |  |  |  |  |  | | **Vot-Total** | |  |  |  |  |  | | | **Grand Total** | |  |  |  |  |  | |
| **F(i). Patent Search (describe how your research output shall produce an innovative idea or technology that has the potential to be a solution for stakeholders (community, industry, government etc.) and offers a unique proposition)** |
| ***To identify if the researcher is able to coherently present a compelling argument for his/her proposal in light of the IP landscape and factors identified in the (Yes/No) Section. The answer would reflect an understanding of the applicant’s research advantage and limitations.*** |
| **F(ii). Research Collaborator** |
| * **International Research Laboratories (Collaboration might be in the form of co-authorship, co-researcher or any other significant and relevant collaborations)** * **International Agency/Organization (Please identify all agencies/organisations collaborating in the project, and describe their role/contribution to the project)** * **Industrial Linkages (Please identify any industry or end-user group involved in the project, and describe its role/contribution to the project) (if any)** |
| **F(iii). Risk Assessment (Please describe factors that may cause delays in, or prevent implementation of, the project as proposed above; estimate also the degree of risk and delineate whether this is a high risk research)** |
| **Please consider an appropriate approach to working in the current conditions (pandemic, travel ban, social distancing etc.)**   |  |  |  |  | | --- | --- | --- | --- | | **Risk** | **Low** | **Medium** | **High** | | **1. Technical** |  |  |  | | **2. Timing** |  |  |  | | **3. Budget** |  |  |  |   **Description of risk assessment** |
| **G. Declaration** |
| **I declare that:**   * **All details provided in this application are accurate. KPT has the right to reject or to cancel the offer without prior notice if there is any inaccurate information given.** * **This proposal is not currently considered for any other research grant(s).** * **The exact proposed work has not been funded through other research grant(s).** * **Necessary approvals from relevant bodies (i.e.: Ethics Committee) are granted before related research activities commence.** |
| **Name: Signature:**  **Date:**  **Approved By: Signature:**  **RMC**  **Date:** |
| **Appendix** |
| |  |  |  | | --- | --- | --- | | **Appendix** | **Name** | **File Name** | | **1** | **CV of Project Leader** |  | | **2** | **CV of Project Mentor** |  | | **3** | **Evidence of 3 Articles in High Impact Journal** |  | | **4** | **Evidence of Collaboration with International Research Laboratories/Agencies/Organizations** |  | | **5** | **Patent Search Form** |  | | **6** | **Flow Chart of Research Activities** |  | |  |  |  | |  |  |  | |