**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**

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| **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** |  |
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| **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** |
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| **Location** |
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| **C(viii). Duration of this Research** |
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| **From** | **1st October 2021** |
| **To** |  |
| **Duration** |  |

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| **C(ix). Research projects (national) that have been completed or are on-going by project leader in the last five years** |
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| **Title** | **Grant Name** | **Role****(Leader/****Member)** | **Progress (%)** | **Status** | **Duration** | **Start Date** | **End Date** |
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| **C(x). International grants that have been received by the project leader** |
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| **Title** | **Grant Name** | **Role (Leader/ Member)** | **Progress (%)** | **Status** | **Duration** | **Start Date** | **End Date** |
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| **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** |
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| **Title** | **Main Author/Corresponding Author/Co-Author** | **Name of Journal** | **Year** | **Quartile (Top)** |
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 **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**

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| **International Research Laboratories/Agency/Institution** | **Form of Collaboration** | **Details of Publication/Research/etc**  | **Role (Leader/ Member)** |
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| **C(xiii). Mentor / Co-Mentor** |
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| **Name** | **IC/Passport Number** | **Faculty/School/ Centre/Unit/Department**  | **Position** | **Area of Expertise** | **Role****(Mentor/** **Co-Mentor)** |
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| **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** |
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| **Title** | **Grant Name** | **Role****(Leader/Member)** | **Progress (%)** | **Status** | **Duration** | **Start Date** | **End Date** |
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| **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))** |
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| **Title** | **Main Author/Corresponding Author/Co-Author** | **Name of Journal** | **Year** |
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| **C(xvi). Other Researchers (Limited to six (6) project members including Co-Mentor, if any)** |
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| **Name** | **IC Number** | **Faculty/School/ Centre/Unit/Department & Institutions** | **Position** | **Area(s) of Expertise** |
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| **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**  |
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| **(c) Objective(s) of the Research**  |
|  |
| **(d) Methodology** |
| **1. Description of Methodology**  |
| **2. Data Sharing Plan** |
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| **3. Flow Chart of Research Activities** | **Flowchart.pdf** |
| **4. Research Activities** |
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| **Activity** | **Start Date** | **End Date** |
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| **5. Milestones**  |
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| **Description** | **Date** | **Cumulative Project Completion Percentage (%)** |
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| 6. Gantt Chart of Research Activities with Milestones |
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| (e) Expected Results/Research Output/Benefit |
| 1. **Breakthrough Research/Novel Theories/New Findings/Knowledge**
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| 1. **Impact Statement on Quintuple Helix (please delineate/describe expected research deliverables on Society, Academia, Government, Industry and Environment)**
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| 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).**
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| **Total Number of Publications:**

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| **Indexing Body** | **Number of Publications** | **Name of Journal** |
| **Indexed Journal** |
|  **Q1 WoS** |  |  |
|  **SCIE** |  |  |
|  **SSCI** |  |  |

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| 1. **Talent Development (by research)**
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| **Total Number of Postdoctoral (by research):****Total Number of PhD Student(s) (by research):****Remark (if any):** |
| 1. **International Collaborations**
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| 1. **Specific or Potential Applications of the Research Findings (if any)**
 |
|  **Description:**  |
| 1. **Intellectual Properties (IPs) (if any)**
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| **Total Number of Proposed IPs:**  |
| **D. Access to Equipment(s) & Material(s)** |
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| **Type** | **Description** | **Owner** | **Location** | **Address** |
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| **E. Budget** |
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| **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** |  |  |  |  |  |

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| **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.)**

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| **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** |
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| **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** |  |
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