

MINISTRY OF HIGHER EDUCATION

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	

C. Res	search Information
C(i). R	Research Priority Area
Resear	ch Priority Area (Please choose one (1) only):
	Physics
	Chemistry
	Physiology and Medicine
	Economic Science
	Knowledge and Discovery of Frontiers
C(ii). I	Research Domain
Resear	ch 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

From	1 st October 2021
То	
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				

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)	
o. Relevance to Government Foncy (II 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 Dat	te
	5. Milestones						
		Description	Data			D	(0/)
		Description	Date	Cumulative Proj	ve Project Completion Percentage (%)		(%)
_							
(6. Gantt Chart of Resea	rch Activities with Milestones					
		esearch Output/Benefit					
ſ	I. Breakthrough Resear	ch/Novel Theories/New Findings/Knowledge					
1		Quintuple Helix (please delineate/describe e	expected re	esearch deliverables	on Society, Acad	lemia,	
	Government, Industry	y and Environment)					
	Possarah Publication	s (Number of articles to be published in hig	h impost is	wraals (01 Web of S	cionco (MoS) or	Top 1% in	
•		x-Expended (SCIE) or Social Science Citatio					
	sommensurate with t						
	Total Number of Publi	cations:					
	Indexing Body	Number of Publications		Nam	ne of Journal		
		Indexed Journal					
	🔲 Q1 WoS						

SCIE SSCI

. Talent Development (by research)
Total Number of Postdoctoral (by research):
Total Number of PhD Student(s) (by research):
Remark (if any):
5. International Collaborations
5. Specific or Potential Applications of the Research Findings (if any)
Description:
7. Intellectual Properties (IPs) (if any)
Total Number of Proposed IPs:

D. Access to Equipment(s) & Material(s)

Туре	Description	Owner	Location	Address

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	