**PROPOSAL FOR** **INDIVIDUAL RESEARCH GRANTS /**

**YOUNG INDIVIDUAL RESEARCH GRANTS**

**(MANUFACTURING, TRADE AND CONNECTIVITY DOMAIN)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Proposal Title:** |  | | |
| **Duration of Project** (Up to 3 years) **:** | years | | |
| **Budget Requested** (Including 30% Indirect Costs)**:** | $ | EOM | $ |
| EQPT | $ |
| OOE | $ |
| Overseas Travel | $ |
| **Principal Investigator:** | Name of PI: | | |
| Email: | | |
| ORCID: | | |
| % time commitment to IRG/YIRG for PI1: | | |
| **Host Institution** (please indicate only one): |  | | |
| **Keywords for research topic\*:** |  | | |
| **RIE2025 MTC Sector/s:** | [Example: Energy & Chemicals (Refer to application guide Annex A).] | | |
| **Co-Investigator:**  (If applicable) | Name of Co-I: | | |
| Email: | | |
| ORCID: | | |
| Institution: [Same as Host Institution] | | |
| % time commitment to IRG/YIRG for Co-I2: | | |
| **Partner Institution 1** | | | |
| **Co-Investigator:**  (If applicable) | Name of Co-I: | | |
| Email: | | |
| ORCID: | | |
| Institution: | | |
| % time commitment to IRG/YIRG for Co-PI2: | | |
| **Co-Investigator:**  (If applicable) | Name of Co-I: | | |
| Email: | | |
| ORCID: | | |
| Institution: | | |
| % time commitment to IRG/YIRG for Co-I2: | | |
| **Collaborator:**  (If applicable) | Name of Collaborator: | | |
| Institution: | | |

1 % time commitment to IRG/YIRG for PI: PI involvement in IRG/YIRG / PI’s total current research portfolio

2 % time commitment to IRG/YIRG for Co-I: Co-I involvement in IRG/YIRG /Co-I’s total current research portfolio

Note to applicants:

* Applicants are required to submit their applications electronically *via* iGrants between **9 May 2023 and 20 June 2023, 11:59PM**.
* All sections on this form should be completed. All text should be in single spacing Arial font, 10 pt.
* Applications should be submitted in **pdf** format.
* Late, incomplete or unendorsed submissions will not be accepted.
* Details on eligibility criteria can be found in the 2023 MTC IRG YIRG Application Guide.
* Keywords for research topic\*:Refer to Scopus ASJC and indicate one primary subject area, one secondary subject area and up to 5 Fields in the table below.

Scopus ASJC: <https://service.elsevier.com/app/answers/detail/a_id/15181/supporthub/scopus/>

* For more information, please contact:

**IRG/YIRG Secretariat**: Cynthia Ong [IRG\_MTC@hq.a-star.edu.sg](mailto:IRG_MTC@hq.a-star.edu.sg)

Important:

Relevant privileged or confidential information should be disclosed to help convey a better understanding of the project. However, such information must be clearly marked in the proposal.

The A\*STAR Group respects your privacy. By submitting this form, you consent to the A\*STAR Group collecting, using and disclosing your personal data. To find out more about how the A\*STAR Group uses your personal data, please refer to our privacy statement [online](https://www.a-star.edu.sg/privacy-statement).

1. **DECLARATION OF ELIGIBLITY**

**Grant category** (Please select only one)

IRG YIRG

The following is only applicable for YIRG applicant (IRG applicant please leave it blank):

|  |  |  |
| --- | --- | --- |
| Applicant is not more than 7 years post-PhD | Yes (meets this eligibility criteria) | No (does not meet this eligibility criteria) |
| Applicant is not a PI of an on-going MTC/ AME IRG or MTC/ AME YIRG project. | Yes (meets this eligibility criteria) | No (does not meet this eligibility criteria) |

1. **LETTER OF INTENT**

In no more than 4 **pages** (excluding section (i) – (l), single spacing, Arial font, 10 pt), include the following sections in the research proposal.

1. **Overall objective statement (no more than 100 words)**

Provide an overall objective statement, including the current problem(s)/challenge(s) that the proposed research intends to address, the hypothesis to be tested and explain why it is significant to the economy and/or society, and of strategic relevance to Singapore. Use neither jargon nor acronyms.

1. **Methods and approaches**

Provide a summary of the hypotheses and methodologies, highlighting the novelty and originality of the concepts or approaches, benchmarked against other current international efforts. Where available, preliminary data can be included in this section.

1. **Timeline of project/milestones showing feasibility of completion within the proposed duration**
2. **Outcomes and Deliverables**

Describe in detail the proposed technical deliverables in quantitative terms (e.g., target specifications of product or system, % improvement in system capability). What are the scientific milestones/ metrics that can be used to appropriately measure success at mid-term review and at completion of the program against the stated research objectives? Be quantitative if possible (e.g.: a 2X improvement, or a specific achievement).

1. **Convergence to MTC Domain Focus Areas and Impact**

Please explain how the proposed research addresses the needs and goals of the relevant MTC domain(s), with a line of sight towards potential technologies for industry adoption in the long term (Refer to Annex A). Please also explain what impact success of the project would be for the economy and/or society, and how it would generate value for Singapore.

1. **Roles of Team Members**

What are the roles and contributions of the Co-I(s) and collaborators? Briefly describe the plans for interaction among the team member(s) and collaborator(s) in achieving the research objectives. What are the track records and capabilities of the PI and Co-I(s), which are relevant to the research programme? How are the collaborator(s) augmentative and relevant to the research programme?

1. ***[For YIRG applicants only]* Personal Statement / Preparation Towards Becoming an Independent PI**

As an early career researcher, what are your aspirations, and how would winning the YIRG grant help you in your journey towards becoming an independent PI?

1. ***[For YIRG applicants only]* Mentorship (To be answered by PI’s Mentor)**

Describe the mentorship and career development support to be provided by the Host institution.

1. **References (Maximum 1 page)**

List the references in the order cited in this proposal. Titles of the cited papers should be shown in this list.

1. **Resubmission (Maximum 1 page)**

|  |  |  |
| --- | --- | --- |
| Is the application a resubmission of previous MTC/ AME IRG/YIRG grant calls? | Yes, this is a resubmission | No, this is not a resubmission |

If ‘**Yes**”:

* + Please indicate the year of the grant call
  + Please highlight the comments made by the reviewers from the previous submission and indicate how the resubmission addresses the comments and how the current resubmission differs from the previous submission.

1. **Declaration of other grants currently held as PI / being applied for as PI and the status**

Indicate ‘**Yes**’ if current submission is being used for other submissions. Indicate ‘**No**’ if no other versions of this proposal (or parts thereof) with similar objectives, scope, deliverables or outcomes have been or will be submitted to any other funding bodies.

Yes  No

Additionally, if ‘**Yes**’, please indicate where the proposal has been or will be submitted to.

**l) Other Funding Support**

**All grants currently held or being applied**

Please list all competitive grants funded under public and/or international schemes (all fields are mandatory) currently held or applied grants by the PI and all Co-Is listed on the cover page (not required for collaborators). These include grants and projects supported by or/ applied to A\*STAR, NMRC, NRF, Universities and/or, other public funding agencies (as Implementing Agencies), as well as those supported by or applied to international funding agencies and industry partners. Internal institutional funding may be excluded. Please indicate “N.A.” for PI or Co-Is with currently no awarded grants or grants being applied for. Note that all PI and Co-Is must be accounted for under this section. Please add more rows, where necessary.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Name and Role in IRG/YIRG Proposal | Grant ID / Project Number | Grant Title | Funding Agency | Status (Awarded/Applied) | Title of Research | Total Amount Awarded (S$) | % of Time involved in the Grant | Support Period (dd/mm/yyyy to dd/mm/yyyy) | Role assumed in the project |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

1. **UNDERTAKING**
2. **UNDERTAKING BY PRINCIPAL INVESTIGATOR and CO-INVESTIGATORS**

**In signing the Letter of Intent, the Principal Investigator (PI), all Co-Investigator(s) undertakes, on any Grant Award, to:**

* Read, support and agree to this proposal being carried out in the Institution(s)
* Be actively engaged in the execution of the research and ensure that the study complies with all laws, rules and regulations pertaining to animal and human ethics, including the Singapore Good Clinical Practice Guidelines
* Not send similar versions or part(s) of this proposal to other agencies for funding.
* Ensure that the requested budget and equipment/resources are not supported by other research grants or institutional funding. Stern action will be taken against those who commit double dipping of funds from different grant sources, including (but not limited to) the suspension or termination of funding.
* Ensure that all necessary licenses and approvals have been obtained or are being sought
* Ensure that A\*STAR is acknowledged in all publications.
* Ensure that all publications arising from the research is deposited in the Institution’s open access repository (or any other institutional/subject open access repository), in accordance to the Institution’s open access policy.
* Ensure that there is a reasonable effort in accessing available equipment/resources within the Institution(s) or elsewhere within Singapore.
* Ensure that there is no financial conflict of interest
* Adhere to A\*STAR's Grants Terms & Conditions (T&Cs) and Funding Guidelines, as well as all other applicable guidelines, policies and procedures adopted by A\*STAR, which may be amended or varied from time to time;
* Comply with the provisions of any relevant laws of the Republic of Singapore, statutes, regulations, by-laws, rules, guidelines and requirements applicable to it; and
* Agree to hold primary responsibility for the responsible conduct of research, and shall abide and comply with the ethical, legal and professional standards relevant to research, in accordance to the research integrity policy of the Institution(s).

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Declaration** | **Signature** | **Date** |
| Principal Investigator (PI) | * I declare that all information is accurate and true. * I declare that I fulfil all the eligibility criteria for IRG/YIRG. |  |  |
| Co-Investigator (Co-I)\* | * I declare that I hold an appointment in a local publicly funded institution. |  |  |
| Co-Investigator (Co-I)\* | * I declare that I hold an appointment in a local publicly funded institution. |  |  |

*\* Please add / remove where appropriate*

1. **UNDERTAKING BY head of institution**

To be completed by the Principal / Director of the respective office of research / academic institute of the PI (or equivalent).

**In signing the Grant Application, the Host Institution UNDERTAKES to:**

* Confirm the accuracy and completeness of the information submitted.
* Ensure that the applicant is independently salaried by the institution for the entire period of the grant.
* Ensure that the budget is appropriate and reasonable (e.g., no double funding/excessive purchase of equipment), and is aligned with the Host Institution’s HR and other policies.
* Ensure that the proposed research will be conducted in the Host Institution.
* Provide appropriate support during the grant period;
* Ensure that the funds provided are used for the stated purposes in the proposal;
* Ensure that the research complies with all relevant laws of the Republic of Singapore, statutes, regulations, by-laws, rules, guidelines and requirements applicable to it;
* Ensure that the research complies with the Institution's research operating, administrative, HR and finance procedures, guidelines and policies; and
* Adhere to the funding agency's Grants Terms & Conditions (T&Cs) and Funding Guidelines, as well as all other applicable guidelines, policies and procedures adopted by the funding agency, which may be amended or varied from time to time.

|  |  |  |  |
| --- | --- | --- | --- |
| Name: |  |  |  |
| Designation: |  | Institution: |  |
| Signature: |  | Date: |  |

**IV*.*****Curriculum vitaE (Maximum 1 page)**

Please use the format below to provide the required information on the lead PI. Only Lead PI’s CV is required. Indicate NA if the indicated information is not applicable. **CV should not exceed 1 page** (single spacing, Arial font, 10 pt)**.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** |  | | | | |
| **Email** |  | | | | |
| **Current position and past employment history**   * + *Order details in reverse chronological order*   + *Provide full details, i.e. joint appointments, other academic appointments including those outside of Singapore.* | | | | | |
| **Period**  **(MM YYYY to MM YYYY)** | **Name/ Country of Organisation** | **Position Held** | **Appointment Type** | **Research Topic** | **Research Supervisor (if applicable)** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| *Add/remove rows as required* | | | | | |
| **Academic qualifications** | | | | | |
| **Date Awarded**  **(MM YYYY)** | | **Qualification** | | **Institution Attended and Country** | |
|  | |  | |  | |
|  | |  | |  | |
| *Add/remove rows as required* | | | | | |
| **5 most impactful publications**   * + *Include only publications of direct relevance to proposal research area, stating impact factors where applicable*   + *Please emphasize your name by underlining* | | | | | |
|  | | | | | |
| **Patents held** *(related to the proposed study)* | | | | | |
|  | | | | | |