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

**YOUNG INDIVIDUAL RESEARCH GRANTS**

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

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| --- | --- | --- | --- |
| **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: | | |
| % time commitment to IRG/YIRG for PI1: | | |
| **Host Institution** (please indicate only one): |  | | |
| **Keywords for research topic\*:** |  | | |
| **Co-Investigator:**  (If applicable) | Name of Co-I: | | |
| Department/ Institution: [Same as Host Institution] | | |
| % time commitment to IRG/YIRG for Co-I2: | | |
| **Partner Institution 1** | | | |
| **Team PI:**  (If applicable) | Name of Team PI: | | |
| Department/ Institution: | | |
| % time commitment to IRG/YIRG for Team PI2: | | |
| **Co-Investigator:**  (If applicable) | Name of Co-I: | | |
| Department/ Institution: | | |
| % time commitment to IRG/YIRG for Co-I2: | | |
| **Collaborator:**  (If applicable) | Name of Collaborator: | | |
| Department/ Institution: | | |
| % time commitment to IRG/YIRG for Collaborator3: | | |

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 Team PI/Co-I: Team PI/Co-I involvement in IRG/YIRG /Team PI’s/Co-I’s total current research portfolio

3 % time commitment to IRG/YIRG for Collaborator: Collaborator involvement in IRG/YIRG /Collaborator’s total current research portfolio

Note to applicants:

* Applicants are required to submit their applications electronically *via* IGMS between **25 Jun 2021 and 06 Aug 2021, 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 2021 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\_AME@hq.a-star.edu.sg](mailto:IRG_AME@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.aspx).

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 (j) – (m), 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.

1. **Background literature and preliminary data, if any**
2. **Timeline of project/milestones showing feasibility of completion within the proposed duration**
3. **Convergence to MTC Strategies and Goals**

If possible, please explain how the proposed research could develop technologies that are convergent to MTC’s strategies and goals in the long term.

1. **Outcomes and Deliverables**

Describe in details the proposed technical deliverables, preferably 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). 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 Team PI(s), 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, Team PI(s) 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 applicant only]* Preparation Towards Becoming an Independent PI**

Describe how the grant will help the PI towards becoming an independent PI.

1. ***[For YIRG applicant 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.

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.

**m) Other Funding Support**

**All grants currently held or being applied**

Please provide the details (all fields are mandatory) for all currently held or applied grants by the PI and all Team PI(s) or Co-Is listed on the cover page (not required for collaborators). These include those supported by and/or applied to universities, other public funding agencies and foundations (include those administered by A\*STAR, NMRC, NRF, or MOE as well as other agencies/institutes/foundations). Please indicate “N.A.” for PI, Team PIs or Co-Is with currently no awarded grants or grants being applied for. Note that all PI, Team PIs 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 |
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1. **UNDERTAKING**
2. **UNDERTAKING BY PRINCIPAL INVESTIGATOR, team PIs and CO-INVESTIGATORS**

**In signing the Letter of Intent, the Principal Investigator (PI), all Team PI(s) and 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 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 the requested equipment/resources are not funded by another agency or research proposal.
* 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. |  |  |
| Team PI\* | * 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.

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** |  | | | | |
| **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)** |
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|  |  |  |  |  |  |
| *Add/remove rows as required* | | | | | |
| **Academic qualifications** | | | | | |
| **Date Awarded**  **(MM YYYY)** | | **Qualification** | | **Institution Attended and Country** | |
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|  | |  | |  | |
| *Add/remove rows as required* | | | | | |
| **Personal Statement** | | | | | |
|  | | | | | |
| **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* | | | | | |
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| **Patents held** *(related to the proposed study)* | | | | | |
|  | | | | | |
| **Scientific awards** | | | | | |
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