

**ITALY – SINGAPORE**

**SCIENCE AND TECHNOLOGY COOPERATION**

**CALL FOR JOINT RESEARCH PROPOSALS FOR THE YEARS 2023-2025**

**Application Form**

(For Singapore-Based Public Sector Research Performers)

|  |  |
| --- | --- |
| **Proposal Title:** |  |
| **Duration of Project:** |  |
| **Budget Requested** (Including Indirect Costs)**:** |  |
| **Principal Applicants:** | Singapore-based Public Research Performer |
| Italy-based Public Research Performer |

Singapore-based public sector research performers are required to submit their joint applications electronically via iGrants from **7 Oct 2022 until 30 Nov 2022, 7pm**. **Late, incomplete or unendorsed submissions will not be accepted**.

Please duly complete all sections on this form as well as the worksheet titled ‘Template for Budget, Milestones, Work Contributions and KPIs’ (to be attached separately). All text should be in single spacing Arial font, 10 pt.

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.

This document contains **eight (8) separate sections**.

Please complete ALL sections following the instructions and submit application in **PDF format**.

Please name files in the following format: <SG-ITALY 2022\_Singapore Lead PI name \_ Italy Lead PI name \_ Proposal/Budget/CV, etc>

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| **SECTION** | **DESCRIPTION** |
| **I.** | **MAIN DETAILS**  1. Details of public sector research performers  2. Lay abstract of proposal  3. Scientific abstract of proposal  4. Declaration of ethics approval |
| **II.** | **DETAILS OF RESEARCH** |
| **III.** | **WORK CONTRIBUTION**  1. Work contribution of team members and collaboration plans  2. Contribution details (refer to attached excel template) |
| **IV.** | **OTHER FUNDING SUPPORT**  1. All grants currently held or being applied |
| **V.** | **ENDORSMENT**  1. Endorsement from principal investigators  2. Endorsement from head of institution |
| **VI.** | **Curriculum vitae** |

All information is treated in confidence. The information is furnished to the A\*STAR Group with the understanding that it shall be used or disclosed for evaluation, reference and reporting purposes. To find out more about how the A\*STAR Group uses your personal data, please refer to our privacy statement. <https://www.a-star.edu.sg/privacy-statement.aspx>

1. **MAIN DETAILS**
   1. **Details of public sector research performers**

The submission of every joint proposal must involve one Singapore-based and one Italy-based public sector research performer.

The Principal Investigators (PIs) are the lead researchers responsible for the milestones and deliverables of the project, coordinating research activities carried by the research team, managing the grant award and submitting progress reports on behalf of the research team.

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| **Singapore-based representatives** | |
| Principal Investigator (PI)  Institution/Division  Address  E-mail Address  Phone Number |  |
| **Italy-based representatives** | |
| Principal Investigator (PI)  Institution/Division  Address  E-mail Address  Phone Number |  |

\* Please add / remove where appropriate

* 1. **Lay abstract of proposal**

Proposals must be submitted within one of the following priority research areas:

* Foodtech
* Artificial Intelligence
* Health/Medical (Cancer, Immunology and Skin Research)
* Photonics
* Quantum Technology
* Robotics
* Hydrogen-related Research

In no more than **300 words**, please provide a **general description** of the proposal that can be **understood by a non-scientific audience**.

\*Please note that the lay abstract may be released to the media for the purpose of announcement of the grant call results.

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* 1. **Scientific Abstract of Proposal**

In no more than **1,500 characters** (excluding spaces), please provide a **succinct and accurate description** of the proposal. This includes the specific aims, hypothesis, methodology and approach; and the impact including the potential value creation/capture.

\*Please note that the scientific abstract may be released to the media for the purpose of announcement of the grant call results.

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* 1. **Declaration of ethics approval**

Please note that the approval of the grant is subject to ethics approval. Please tick if your study involves the following ethics categories. Kindly indicate the expiry date of the ethics approval and attach the relevant ethics approval documentation.

If your research involves any of the ethics category but ethics approval us not necessary, please provide the relevant rational under the comments textbox.

Please tick, where appropriate, if your study involves the following:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ethics Category** | **Involved?**  *(tick if yes)* | **Ethics Approval Required?**  *(tick if yes)* | **Ethics Approval Expiry Date**  *(dd/mm/yyy)* | **Comments/Reasons** |
| Human subject |  |  |  |  |
| Use of Human Tissues or Cells |  |  |  |  |
| Animal Experimentation |  |  |  |  |
| Use of Animal Tissues or Cells |  |  |  |  |
| Requirement for containment Class 2 and above |  |  |  |  |

A copy of the ethics approval is attached:

**Yes**

**No**

1. **Details of research**

In no more than **10 pages** (excluding the reference section), include the following sections in the research proposal.

1. **Specific Aims and Hypothesis**

State concisely and realistically what the proposed research intends to accomplish and/or what hypothesis is to be tested.

1. **Background and Problem Statement**

Provide a brief background on the research proposal, including the current problem(s) and challenge(s) that the proposed research intends to address.

1. **Detailed Methods and Approaches**

Describe the hypotheses and methodologies, highlighting the novelty and originality of the concepts or approaches. State how the proposed approaches differentiate and set them apart from others in the same field.

1. **Preliminary Work**

Singapore and Italy investigators should describe previous works that are related to this proposal and any other preliminary results that would help support this proposal. They should also describe past collaborative efforts between themselves.

1. **Novelty of Proposed Approach**

Highlight succinctly the novelty of the proposed approach.

1. **Competitors/Competitive Advantage of Proposed Approach**

Indicate other teams working in similar areas and highlight key competitors, and why the proposed approach is more effective than current methodologies of key competitors.

1. **Manpower and Equipment Justification**

Singapore-based researchers should elaborate in detail, the reasons for the requested manpower and equipment, highlighting specific contributions to the deliverables of the project.

1. **Budget, Milestones and KPIs (submit in excel spreadsheet)**

Singapore-based researchers should elaborate in detail the proposed budget’s breakdown, project milestones and proposed capabilities indicators in the Excel template “Budget, Milestones, Work Contribution and KPIs Form”, which would be made available on iGrants.

1. **References**

List the references in the order cited in this proposal.

1. **Work Contribution**
   1. **Work contribution of team members**

Please provide detailed description of the work contribution of each of the team members of all Singapore-based and Italy-based public sector research performers.

Applications should describe in detail:

* The lead Singapore and Italy institutions involved in the project,
* Details on the interaction between investigators of both countries,
* Specific contribution and responsibilities of the Singapore and Italy PIs
* Involvement (i.e. in terms of man-months per year) of all PI(s)
* Achievements that are relevant and necessary in ensuring success for the proposed research, and
* Project duration.

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* 1. **contribution details**

Please provide the detailed work contribution breakdown for the Singapore-based researchers in the Proposal Submission Excel template “Budget, Milestones, Work Contribution and KPIs Form”.

**Project Cost**

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| --- | --- |
| **Estimated contribution to total project cost by:** | |
| Singapore-based public sector research performer (including indirect costs) |  |
|  | **Total sum: (SGD)** |
| Italy-based public sector research performer |  |
|  | **Total sum: (EUR)** |

**Resource Commitment**

Provide a breakdown of the resources committed by each participant. Specific to the IP arrangement, outline the planned agreement between the project participants:

* How will IPs by each participant be treated entering the project,
* How will IPs developed during the course of the collaboration be treated,
* How will IPs be treated at the end of the project (please indicate any early stage agreement on the splitting of export markets, sales and/or licensing, etc).

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1. **Other funding support**
   1. **All grants currently held or being applied**

Please provide the details for **ALL** currently held or applied national grants by the Singapore-based PI complete or in progress over the **last three years** preceding this application. National grants include those administered by A\*STAR, NMRC, NRF, MOE, or other public funding agencies and foundations.

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| --- | --- | --- |
| 1. | Grant ID / Project Number |  |
| Grant Title |  |
| Funding Agency |  |
| Status |  |
| Title of Research |  |
| Total Amount Awarded / Applied for (S$) |  |
| Brief Description of Project |  |
| Years of Support |  |
| Expiry Date of Grant (dd/mm/yyyy) |  |
| Role assumed in this project |  |
| Funding Awarded to |  |
| Status (ongoing / Completed) |  |
|  | | |
| 2. | Grant ID / Project Number |  |
| Grant Title |  |
| Funding Agency |  |
| Status |  |
| Title of Research |  |
| Total Amount Awarded / Applied for (S$) |  |
| Brief Description of Project |  |
| Years of Support |  |
| Expiry Date of Grant (dd/mm/yyyy) |  |
| Role assumed in this project |  |
| Funding Awarded to |  |
| Status (ongoing / Completed) |  |
|  | | |
| 3. | Grant ID / Project Number |  |
| Grant Title |  |
| Funding Agency |  |
| Status |  |
| Title of Research |  |
| Total Amount Awarded / Applied for (S$) |  |
| Brief Description of Project |  |
| Years of Support |  |
| Expiry Date of Grant (dd/mm/yyyy) |  |
| Role assumed in this project |  |
| Funding Awarded to |  |
| Status (ongoing / Completed) |  |
|  | | |

1. **Endorsement**
   1. **endorsment from PRINCIPAL INVESTIGATORS**

In signing the Grant Application, all Principal Investigators (PIs) UNDERTAKE, on any Grant Award, to:

* Not send similar versions of part(s) of this proposal to other agencies for funding.
* Submit supporting documents of ethics approval obtained from the relevant Institutional Review Board (IRB) and Animal Ethics Committee for studies involving human subjects / human tissues or cells, and animal / animal tissues or cells respectively.
* Be actively engaged in the execution of the research and comply with all laws, rules and regulations pertaining to animal and human ethics, including the Singapore Good Clinical Practice Guidelines.
* Ensure that all publications arising from research wholly or partly funded by A\*STAR will be forwarded to A\*STAR.
* Obtain approval from A\*STAR before engaging in any commercial activity that will exploit the findings funded by A\*STAR.

***I / We declare that the facts stated in this application and the accompanying information are true and that this is an original and latest version of the proposal.***

***I / We also declare that 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.***

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| --- | --- | --- | --- | --- |
| **Name** | **Name and Designation** | **Institution** | **Signature** | **Date** |
| Singapore-based  Principal Investigator (PI) |  |  |  |  |
|  | | | | |
| Italy-based  Principal Investigator (PI) |  |  |  |  |
|  | | | | |

*\* Please add / remove where appropriate*

* 1. **endorsment from head of institution**

To be completed be the Executive Director of the A\*STAR RI or with the appropriate endorsement by the respective Host Institution (by the Chief Executive Director, Executive Director, the Director of Research or equivalent).

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| **Specific Comments**: |
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**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 adequate resources to the applicant for the entire grant period (e.g., lab spaces, mentorship and career development support).
* Ensure that the funds provided are used for appropriate purposes.
* Ensure that the study complies with all laws, rules and regulations pertaining to national and the institution’s research operating procedures and guidelines.

***The Institution supports/does not support\* this proposal.***

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

**\*** *Please delete where appropriate*

1. **Curriculum vitae**

Please use the format below to provide the required information on PI(s). Indicate NA if the required information is not applicable. **Each CV should not exceed 4 pages for the Lead PIs.**

* Name
* Age
* Office Mailing Address
* Email
* Contact No
* 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,
  + Provide duration of appointment, type of appointment, the research topic, the institute and the research supervisor, if applicable.
* Academic qualifications
  + Please indicate institution’s name and date of awarded degree
* Research interests
* Publications in the last 3 years
  + Include only publications of direct relevance to proposal research area, stating impact factors where applicable
  + Please emphasize your name in bold
* Patents held (related or unrelated to study)
* Scientific awards

**For Singapore-based PI only**. Percentage of time spent in Singapore every year (% declared should exclude **only** time spent overseas due to overseas appointment(s). Please indicate reason(s) if % declared is less than 100%)