 

**Singapore-Australia Bilateral Programme on
‘Innovations in Food for Sustainability’ (2024)**

**Application Form***Proposal for a Research Project between*

***[Singapore Research Performer] and [CSIRO]***

(To be jointly submitted by Singapore and Australia applicants to A\*STAR)

|  |  |
| --- | --- |
| **Proposal Title** (*in English*)**:** |  |
| **Area of Focus:**  | 1. *Production of new or novel ingredients: Fractionation and/or Precision Fermentation*
2. *Nutrition and Health*
3. *Consumer acceptance of Complementary Protein/Novel Foods*
4. *Food Side Stream/Waste Valorisation*

(Please refer to the ‘Innovations in Food for Sustainability’ Grant Guidelines for more details on the programme objective for each focus area) |
| **Duration of Project (in months):** |  |
| **Budget Requested** (Including Indirect Costs)**:** | *Singapore-based applicants (S$):**Australia-based applicants (A$):*  |
| **Principal Applicants**  | Singapore-based Principal Investigator [Public Sector][Name, Designation, Institute]Singapore-based Co-Investigator [Public Sector] (optional)[Name, Designation, Institute]Singapore-based Industry Collaborator (optional)[Name, Designation, Institute] |
| Australia-based Principal Investigator [Public Sector] [Name, Designation, Institute]  Australia-based Co-Investigator (optional)[Name, Designation, Institute]  Australia-based Industry Collaborator (optional)[Name, Designation, Institute]  |

Applicants are required to submit their joint applications between **8 April to 31 May 2024** **(5pm SGT/ 8pm AEDT).**

Please use the following format for the document file name: *<SG-AUS2024\_Proposal Title\_Last Name of Singapore PI\_Last Name of Australia PI\_ApplicationForm >* (e.g. SG-AUS2024\_Food for Sustainability\_Tan\_Smith\_ApplicationForm).

**Late, incomplete or unendorsed submissions will not be accepted**.

The Australia- or Singapore-based public sector research performer will submit ALL the necessary application materials on behalf of all research team members via A-STAR\_FNCC@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.

This document contains **eleven (11) separate sections**.

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

Incomplete submissions **will not be considered** for the grant call. All text should be in **single spacing Arial font, 10 pt**.

|  |  |
| --- | --- |
| **SECTION** | **DESCRIPTION** |
| **1.** | **MAIN DETAILS**1.1 Details of public sector research performers and industry collaborators1.2 Lay abstract of proposal1.3 Scientific abstract of proposal1.4 Declaration of ethics approval  |
| **2.**  | **DETAILS OF RESEARCH*** 1. Excellence (Science and Team synergy)
	2. Path to Impact (Benefit and Outcomes)
	3. Alignment with Programme Aims and Outcomes
	4. Key Performance Indicators (KPIs) and Desired Outcomes
	5. Project Schedule and Milestones
	6. Project Deliverables
	7. References
 |
| **3.**  | **RISK AND MITIGATION PLAN**  |
| **4.** | **BUDGET INFORMATION****4.1** For Singapore Public-Sector Research Performer (Budget Request)[If applicable: **4.2** For Singapore Industry Collaborator (Please indicate cash or in-kind contribution)]**4.3** For Australia Public-Sector Research Performer (Budget Request)[If applicable: **4.4** For Australia Industry Collaborator (Please indicate cash or in-kind contribution)]**4.5** Total Project Cost |
| **5.** | **WORK CONTRIBUTION OF THE TEAM** |
| **6.** | **OTHER FUNDING SUPPORT** |
| **7.**  | **Intellectual property** |
| **8.** | **APPLICANT DETAILS**8.1 Corporate profile and industry overview8.2 Industry Collaborator Involvement |
| **9.** | **ENDORSMENT**[For Signing]9.1 Endorsement from principal investigators and industry collaborators9.2 Endorsement from head of institution – Singapore9.3 Endorsement from head of institution – Australia |
| **10.** | **Curriculum vitae**  |
| **11.** | **ACKNOWLEDGMENTS** [For Signing]11.1 Acknowledgement from principal investigators and co-investigators11.2 Declaration from principal investigators and co-investigators |
| **ANNEX** | **Definition of technology readiness levels (TRLs)** |

All personal information is treated in confidence. The information is furnished to the A\*STAR Group and CSIRO 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 at <https://www.a-star.edu.sg/privacy-statement>.

For CSIRO:

Privacy

CSIRO is bound to protect personal information in accordance with the Privacy Act 1988 and the Australian Privacy Principles.

Personal Information is collected of applicants and their project partners for the purposes of delivering the programme. This personal information may include applicant or project partners’ name, business address, email address and phone number. By submitting an application the participant agrees that we will collect, use and disclose personal information in accordance with the CSIRO Privacy Policy for the purposes of facilitating the programme.

CSIRO may disclose personal information to third parties including international programme collaborators, relevant Australian Government entities (including Austrade, DFAT), experts, industry partners and research institutes for the purposes of assessing eligibility and merit criteria and for the purposes of delivering the programme.

CSIRO will handle all personal information collected in accordance with CSIRO’s Privacy Policy, which is available online at https://www.csiro.au/en/About/Access-to-information/Privacy. This Privacy Policy contains general information about:

• accessing and requesting amendment of personal information, and

• how you can make a privacy related complaint.

As part of your application, you acknowledge that participants have been informed of CSIRO’s privacy statement and CSIRO Privacy Policy and have provided their consent to the handling of their personal information in the ways described in the CSIRO privacy statement and the CSIRO Privacy Policy for the purpose of the Programme.

1. **MAIN DETAILS**

**1.1 DETAILS OF PUBLIC SECTOR RESEARCH PERFORMERS AND INDUSTRY COLLABORATORS**

The submission of every joint proposal must involve one **Singapore-based public sector research performer** and **CSIRO (Australia)**. Please include the details of all Principal Investigators, Co-Investigator(s) and Industry Collaborators (if any) participating in this project.

The Principal Investigators (PIs) are the lead researchers responsible for the milestones and deliverables of the project, coordinating research activities carried out by the research team, managing the grant award and submitting progress reports on behalf of the research team. The Singapore PI must be a public sector research performer. The Australian PI must be a researcher from CSIRO.

The Co-Investigator(s) (Co-I) will be the person(s) leading and managing a particular aspect of the collaborative effort.

A “Collaborator” means any company, institution, incorporated body or other industry or academic collaborator, which is not an Institution or an Investigator but is to be engaged in the Research in collaboration with the Institutions or any of them. For this bilateral agreement, Australia-based industry collaborators are not eligible to receive funding directly and indirectly. Singapore-based collaborators are not eligible to receive funding directly and indirectly unless specifically provided for in the grant and approved by Grantor.

|  |
| --- |
| **Singapore-based representatives**  |
| Principal Investigator (PI) Institution/DivisionAddress E-mail AddressPhone Number | ***[Public Sector Only]*** |
| Co-Investigator (Co-PI)\*Institution/DivisionAddress E-mail AddressPhone Number | ***[Public sector Only]*** |
| Industry Collaborator\* Institution/DivisionAddress E-mail AddressPhone Number | ***[Industry Collaborator]*** |
| **Australia-based representatives** |
| Principal Investigator (PI) Institution/DivisionAddress E-mail AddressPhone Number | ***[Please indicate whether public sector or industry]*** |
| Co-Investigator (Co-PI)\*Institution/DivisionAddress E-mail AddressPhone Number | ***[Please indicate whether public sector or industry]*** |
| Industry Collaborator\* Institution/DivisionAddress E-mail AddressPhone Number | ***[Industry Collaborator]*** |

 \* Please add / remove where appropriate

* 1. **Lay abstract of proposal**

In no more than **300 words**, please provide a **general description** of the proposal that can be **understood by a non-scientific audience**. Please include its importance to “Innovations in Food for Sustainability”, and where appropriate, the approach of the research proposal.

\*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 **500 words**, please provide a **succinct and accurate description** of the proposal. This includes the specific aims, hypothesis, methodology and approach; and the impact to “Innovations in Food for Sustainability”, including the potential value creation/capture. Please also include **at least 5 key words** related to the project.

\*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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| --- |
| Key words:  |

* 1. **Declaration of ethics approval**

Please note that 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 categories but ethics approval is not necessary, please provide the relevant rationale 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 | [ ]  | [ ]  |  |  |

Ethics approvals are required. A copy of the ethics approval is attached:

 **Yes** [ ]

 **No** [ ]

No ethics approvals are required for the submitted application. [ ]

1. **Details of research**

In no more than **8 pages** (excluding the reference section), please include the following sections in the research proposal.

* 1. **Excellence (Science and Team synergy)**
		1. **Specific Aims of the Research**

|  |
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| *State what the proposed research intends to accomplish and/or what hypothesis is to be tested. Indicate the project’s start TRL[[1]](#footnote-2) and the target TRL that the proposed research aims to achieve by the end of the project term.*  |

* + 1. **Background and Problem Statement**

|  |
| --- |
| *Include background on the research proposal, the current problem(s)/challenge(s) and motivation for the proposed research.*  |

* + 1. **Overview of Methodology 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. **Capability of Research Team**

|  |
| --- |
| *Singapore and Australia investigators should describe previous works that are related to this proposal and any key preliminary results that would help support this proposal. Team members should also demonstrate synergy in capabilities and interests.* |

* 1. **Path to Impact (benefits and outcomes)**

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| --- |
| *Describe the ways in which your work will benefit industry or community and the partners that you are engaging or will likely engage to translate the knowledge from this research to uptake.  Team is to consider the benefits from multiple stakeholder perspectives including:** *Benefits to society more broadly, the economy, and/or environment*
* *Benefits to the partnering organisations, i.e., an articulation of the value an industry partner is seeking to realise*
* *Any benefits that have been indicated as an area of priority for the Singapore/Australia government*

*Team is encouraged to provide the quantitative and/or qualitative impact of the technology of the technology if implemented following the success of the project (where applicable).* |

* 1. **Alignment with Programme Aims and Outcomes**

|  |
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| *Describe how the proposed research will lead to one or more of the objectives of the programme:*1. *Develop new or novel ingredients to enable sustainable food production via fractionation and/or precision fermentation to help accelerate delivery to market;*
2. *Gain a greater understanding of the nutritional profiles of novel foods and identify and implement strategies to develop nutritionally balanced products, which may include hybrid and blended products, and facilitate consumer acceptance (e.g. addressing communicating innovation, risks and health benefits of novel foods and innovative technologies to consumers);*
3. *Value add to by-products through food side stream/ waste valorisation and develop value added opportunities for industry;*
4. *Engage with industry, government, community and other R&D organisations to achieve greater impact.*

 |

* 1. **Key Performance Indicators (KPIs), Tracking Indicators (TIs) and Desired Outcomes**

Please list the targets for the listed KPIs and TIs, and desired outcomes that this collaboration aims to achieve, and delete rows where not applicable.

**KPIs:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Category** | **Definition** | **Target** |
| 1 | Number of joint publications with an overseas joint collaborator  | Joint publications have to include researchers from both sides and are based off the funded project.  |  |
|  | *Add new rows where applicable* |  |  |

 **Additional TIs**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Category** | **Definition** | **Target** |
| 1 | TI: Number of publications (top 10% most highly cited journals)  | The top 10% most highly cited journals will be based on the CiteScore rankings maintained by Scopus (https://www.scopus.com/sources.uri, titles in top 10 percentile, Source type Journals and Conference Proceedings).   |   |
| 2 | TI: No of Master’s/PhD students trained/under training |  |  |
|  | *Add new rows where applicable* |  |  |

* 1. **Project Schedule and Milestones**

Please use shading for the time points to propose detailed scientific milestones and key deliverables that the project aims to achieve in the period of funding. These will be used to assess the progress of the study. The progress of the project will be taken into consideration for continued disbursement of funds. Please adjust the project duration accordingly.

**For Singapore research performer:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Year 1** | **Year 2** |
|  | Milestone/Deliverables | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
|  | Objective 1 |  |  |  |  |  |  |  |  |
|  | Objective 2 |  |  |  |  |  |  |  |  |
|  | Objective 3 |  |  |  |  |  |  |  |  |
|  | KPI 1  |  |  |  |  |  |  |  |  |
|  | KPI 2 |  |  |  |  |  |  |  |  |
|  | Annual Progress Report |  |  |  |  |  |  |  |  |
|  | Final Report |  |  |  |  |  |  |  |  |
|  | Add new rows as required  |  |  |  |  |  |  |  |  |

**For Australia research performer:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Year 1** | **Year 2** |
|  | Milestone/Deliverables | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
|  | Objective 1 |  |  |  |  |  |  |  |  |
|  | Objective 2 |  |  |  |  |  |  |  |  |
|  | Objective 3 |  |  |  |  |  |  |  |  |
|  | KPI 1 |  |  |  |  |  |  |  |  |
|  | KPI 2 |  |  |  |  |  |  |  |  |
|  | Annual Progress Report |  |  |  |  |  |  |  |  |
|  | Final Report |  |  |  |  |  |  |  |  |
|  | Add new rows as required  |  |  |  |  |  |  |  |  |

**2.6 Project Deliverables**

A restatement of the deliverables indicated in section 2.5. This is to clearly state what each party expects at the end of the project.

For Singapore-based research performer

The deliverables for this project are:

1.

2.

3.

For Australia-based research performer The deliverables for this project are:

1.

2.

3.

* 1. **References (maximum 1 page)**

Please list the references in the order cited in your proposed methodology and approaches.

**3. RISK AND MITIGATION PLAN**

|  |
| --- |
| *Describe the technical risks and mitigation plan/approach.* |

**4. BUDGET**

* 1. **For Singapore Public-Sector Research Performer (Budget Request)

	Please indicate ‘NA’ where appropriate.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Manpower / Labour (FTE) (please list)** | **No.** | **Year 1 (S$)** | **Year 2 (S$)**  |
| *PI* |  |  |  |
| *Postdoctoral Fellow* |  |  |  |
| *Research Assistant/Student Intern* |  |  |  |
| *Laboratory Technician* |  |  |  |
| *Project Manager* |  |  |  |
| **FTE Subtotal** |  |  |
| **Equipment (please list)** | **No.** | **Year 1 (S$)** | **Year 2 (S$)** |
|  |  |  |  |
|  **Equipment Subtotal** | **0** |  |
| **Other Operating Expenses (OOE)** |  | **Year 1 (S$)** | **Year 2 (S$)** |
| Materials & Consumables |  |  |
| **OOE Subtotal** |  |  |
| **Overseas Travel** | **Year 1 (S$)** | **Year 2 (S$)** |
| Conferences |  |  |
| **Indirect costs (30%)** |  |  |
| **GRAND TOTAL (SGD)** |  |  |

* 1. **For Australia Public-Sector Research Performer (Budget Request)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Manpower / Labour (FTE) (please list)** | **No.** | **Year 1 (A$)** | **Year 2 (A$)**  |
| *PI* |  |  |  |
| *Postdoctoral Fellow* |  |  |  |
| *Research Assistant/Student Intern* |  |  |  |
| *Laboratory Technician* |  |  |  |
| *Project Manager* |  |  |  |
| **FTE Subtotal** |  |  |
| **Equipment (please list)** | **No.** | **Year 1 (A$)** | **Year 2 (A$)** |
|  |  |  |  |
|  **Equipment Subtotal** | **0** |  |
| **Other Operating Expenses (OOE)** |  | **Year 1 (A$)** | **Year 2 (A$)** |
| Materials & Consumables |  |  |
| **OOE Subtotal** |  |  |
| **Overseas Travel** | **Year 1 (A$)** | **Year 2 (A$)** |
| Conferences |  |  |
| **Indirect costs** |  |  |
| **GRAND TOTAL (SGD)** |  |  |

* 1. **Total Project Cost**

|  |
| --- |
| **Estimated total project cost (S$):** |
| Singapore-based public sector research performer (including indirect costs, if any) |  |
| Singapore-based Co-PI |  |
|  | **Total sum (S$):** |
| Australia-based PI |  |
| Australia-based Co-PI |  |
|  | **Total sum (A$):** |
| **Grand Total (S$)** |  |

1. **Work contribution of team members and collaboration plans**

Please provide detailed description of the work contribution of each of the team members of all Singapore-based and Australia-based public sector research performers and industry collaborators (if applicable).

Applications should describe in detail:

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

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| **No.** | **Name** | **Role In Project** | **Institute/Industry name** | **EOM Required (Yes/No)** | **% Effort within project (Total 100%)** | **% Effort within own job scope** |
|   |   |   |   |   |   |  |
|   |   |   |   |   |   |  |
|   |   |   |   |   |   |  |
|   |   |   |   |   |   |  |

1. **OTHER FUNDING SUPPORT**

Please provide details on the funding or other resources provided by any participating industry/institute partner(s) related to this research project.

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Resource** | **Funding Organisation** | **Duration of Support (Years)** | **Expiry Date (dd/mm/yyyy)** |
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1. **INTELLECTUAL PROPERTY**

Likelihood of protectable IP from this Project?

* **Patentable invention**

 *Yes/ No/ Unlikely/ Possible*

* **Other form of IP (e.g.: Proprietary Know-How/Copyright)**

*Yes/ No/ Unlikely/ Possible*

Likelihood of commercializing/licensing the discovery/invention from this

Project?

* **Commercialisation**

*Yes/ No/ Unlikely/ Possible*

Likelihood of Project Parties jointly owning patentable Joint Project IP

*Yes/No*

* **IP Lead Party** (if Yes)

[*insert Project Party name*]is to be the IP Lead Party for [*insert description of the Joint Project IP*]

1. **Industry collaborator details (IF APPLICABLE)**
	1. **Corporate profile and industry overview**

For both the Singapore and Australia-based industry partner, please provide details on the:

* Parent company, including country of incorporation at the group level (provide shareholding structure, detailing parent/ or holding companies, subsidiaries, and/or related entities of the company if applicable),
* Corporate business models and/or activities and strategy,
* Employment profile (E.g. number of employees) and key financial figures in Singapore/Australia,
* Key products and services,
* Target market in terms of customers, market segment and geographical coverage,
* Trends and outlook for the industry segments the company operates in.

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* 1. **Industry collaborator involvement**

Please elaborate on:

* The role of the industry collaborator in this project,
* The desired outcome of the project, from the industry collaborator’s perspective (i.e. new technology, products and/or services).

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**Singapore-Based Industry Partner**

[ ]  For and behalf of the company, I declare that the facts stated in this form and accompanying information are true.

[ ]  I understand that this application is subject to evaluation and nothing in this form constitutes a commitment to approve an application or procure the approval of an application.

|  |  |
| --- | --- |
| Name: |  |
|  |  |
| Designation: |  |
| Date: |  |
| Email Addressand Contact Number:  |  |
| Company Name and UEN: |  |
| Signature |  |

\*Signature of Authorized Signatory on behalf of the Company

 **Australia-Based Industry Partner**

[ ]  For and behalf of the company, I declare that the facts stated in this form and accompanying information are true.

[ ]  I understand that this application is subject to evaluation and nothing in this form constitutes a commitment to approve an application or procure the approval of an application.

|  |  |
| --- | --- |
| Name: |  |
|  |  |
| Designation: |  |
| Date: |  |
| Email Addressand Contact Number:  |  |
| Company Name: |  |
| Signature: |  |

\*Signature of Authorized Signatory on behalf of the Company

1. **Endorsement**
	1. **endorsement from Principal Investigators and Industry Collaborators**

In signing the Grant Application, all Principal Investigators (PIs) and Industry Collaborators as well as Co-Investigator(s) (Co-Is) 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 (for Singapore applicants)
* Ensure that all publications arising from research wholly or partly funded by A\*STAR will be forwarded to A\*STAR. (For Singapore applicants only)
* Obtain approval from A\*STAR before engaging in any commercial activity that will exploit the findings funded by A\*STAR. (for Singapore applicants only)
* State that this project is funded by A\*STAR and CSIRO when disclosing the research result.

***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.***

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

*\* Please add / remove where appropriate*

* 1. **endorsement from Head of Institution – Singapore**

To be completed by 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).

|  |
| --- |
| **Specific Comments**:  |
|  |

**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. **Endorsement from Delegation – Australia**

To be completed by the Representative of the Institution

|  |
| --- |
| **Specific Comments**:  |
|  |

**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 Institution’s policies.
* Ensure that the proposed research will be conducted in the 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) and Co-I(s). Indicate NA if the required information is not applicable. **Each CV should not exceed 4 pages for the Lead PIs and 2 pages for Co-I(s).**

* 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 and Co-PI (if applicable) only**, please indicate the following:

[ ]  Is the percentage of your primary appointment at your host institution at least 75%?

[ ]  Are you salaried at your host institution?

1. **Acknowledgements**
	1. **Acknowledgement from Principal Investigators and Co-Investigator(s) (Co-Is)**

In submitting this application form, all Principal Investigators (PIs) and Co-Investigator(s) (Co-Is) acknowledge that this is an A\*STAR and CSIRO bilateral programme and that both implementing agencies (A\*STAR and CSIRO) will use the information we provide in accordance with the following:

* ‘Innovations in Food for Sustainability’ Grant Guidelines
* Singaporean laws
* applicable Australian laws.

Accordingly, we understand that A\*STAR and CSIRO may share any personal information provided in this application with personnel:

1. for purposes directly related to administering the program, including governance, research and the distribution of funds to successful applicants.
2. to facilitate research, assessment, monitoring and analysis of programmes and activities unless otherwise prohibited by law.

We understand that information that is deemed ‘confidential’ in accordance with the grant opportunity guidelines may also be shared for a relevant Singaporean or Australian government purpose. A\*STAR and CSIRO may publish information on individual grants in the public domain, including on its websites, unless otherwise prohibited by law.

* 1. **Declaration from Principal Investigators and Co-Investigator(s) (Co-Is)**

In submitting the application form, all Principal Investigators (PIs) and Co-Investigator(s) (Co-Is) declare that they have read and understood the ‘Innovations in Food for Sustainability’ Grant Guidelines, including the privacy, confidentiality and disclosure provisions.

We declare that we will comply with, and require that our subcontractors and independent contractors comply with, all applicable laws.

I declare that the information contained in this application together with any statement provided is, to the best of my knowledge, accurate, complete and not misleading.

We acknowledge that we may be requested to provide further clarification or documentation to verify the information supplied in this form and that the implementing agency (A\*STAR and CSIRO) may, during the application process, consult with other government agencies, about the applicant’s claims and may also engage external technical to advise on information provided in the application.

We agree to participate in the periodic evaluation of the services undertaken by the implementing agency.

We approve the information in this application being communicated to A\*STAR and CSIRO in electronic form.

We acknowledge that if A\*STAR and CSIRO are satisfied that any statement made in an application is incorrect, incomplete, false or misleading, the implementing agency may, at its absolute discretion, take appropriate action. We note such action may include excluding an application from further consideration; withdrawing an offer of funding; and/or for a grant under management, terminating a grant agreement between the relevant implementing agency (A\*STAR or CSIRO).

We declare that we have appointed the appropriate team member to submit this form on behalf of the research team.

In signing off this section, all Principal Investigators (PIs) and Co-Investigator(s) (Co-Is) acknowledge that they have read, understand and agree on the above acknowledgements and declarations.

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

 *\* Please add / remove where appropriate*

**ANNEX – Definitions of technology readiness levels (trls)**

|  |  |  |
| --- | --- | --- |
| **TRL** | **Description** | **Example** |
| 1 | Basic principles observed | Scientific observations made and reported. Examples could include paper-based studies of a technology’s basic properties. |
| 2 | Technology concept formulated | Envisioned applications are speculative at this stage. Examples are often limited to analytical studies. |
| 3 | Experimental proof of concept | Effective research and development initiated. Examples include studies and laboratory measurements to validate analytical predictions. |
| 4 | Technology validated in lab | Technology validated through designed investigation. Examples might include analysis of the technology parameter operating range. The results provide evidence that envisioned application performance requirements might be attainable. |
| 5 | Technology validated in relevant environment | Reliability of technology significantly increases. Examples could involve validation of a semi-integrated system/model of technological and supporting elements in a simulated environment. |
| 6 | Technology demonstrated in relevant environment | Prototype system verified. Examples might include a prototype system/model being produced and demonstrated in a simulated environment. |
| 7 | System model or prototype demonstration in operational environment | A major increase in technological maturity. Examples could include a prototype model/system being verified in an operational environment. |
| 8 | System complete and qualified | System/model produced and qualified. An example might include the knowledge generated from TRL 7 being used to manufacture an actual system/model, which is subsequently qualified in an operational environment. In most cases, this TRL represents the end of development.  |
| 9 | Actual system proven in operational environment | System/model proven and ready for full commercial deployment. An example includes the actual system/model being successfully deployed for multiple missions by end users. |

1. Please refer to the Annex for the definition of the TRL levels. [↑](#footnote-ref-2)