**PROPOSAL FOR PROGRAMMATIC FUNDS**

**(AME DOMAIN)**

Please do not exceed 10 pages (excluding Annexes). Sections I, II, XII and XIII may be excluded from the page count, while Sections III, X and XI may be included as Annexes.

Please use Font: Arial 10 pt, Single spacing for your text

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| **SECTION** | **DESCRIPTION** |
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| **II.** | **DETAILS OF TEAM MEMBERS (PROGRAMME LEAD, CO-I(S) AND COLLABORATOR(S))** |
| **III.** | **REPORT FOR PREVIOUS PHASE OF FUNDING (IF APPLICABLE)** |
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| **XIII.** | **DECLARATION FROM HEAD(S) OF HOST INSTITUTION(S)** |

Kindly submit application to:

[programmatic\_ame@hq.a-star.edu.sg](mailto:programmatic_ame@hq.a-star.edu.sg)

**Important:**

**Relevant privileged or confidential information should be disclosed to help convey a better understanding of the project. Such information should be clearly marked in the proposal.**

1. **DESCRIPTIVE TITLE AND EXECUTIVE SUMMARY**

* Proposed title of programme.
* Executive Summary: List specific aims, hypotheses, methodology, potential applications/exploitations, novelty/innovative factors, budget needs and funding period.

1. **DETAILS OF TEAM MEMBERS (PROGRAMME LEAD, CO-Is AND COLLABORATORS)**
   * Insert details of each team member in the table below. If required, please insert additional rows.
   * The Programme Lead’s role will be to coordinate research activities carried by research team. He/She will be responsible for all progress reporting of the programme, on behalf of the research team.
   * The Co-I(s) will be the person(s) leading and managing a particular aspect of the collaborative effort.
   * Collaborator(s) refers to any company, institution, incorporated body or other industry or academic collaborator, who are engaged in the research in collaboration with the Programme Lead or Co-Is.

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| **PROGRAMME LEAD:**  (Title, name and research institution, email address and contact no.) |  |
| **CO- I:**  (Title, name and research institution, email address and contact no.) |  |
| **COLLABORATOR:**  (Title, name and affiliation, email address and contact no.) |  |

1. **REPORT FOR PREVIOUS PHASE OF FUNDING (IF APPLICABLE)**

* Please provide a short summary of the programme to date as an Annex to the proposal.
* Elaborate on the achievements made during the previous phases of funding (including milestones achieved by the programme).
* Include a summary of the budget awarded and the utilization (to-date).
* Please restrict this section to not more than 5 pages.

1. **KEY OBJECTIVES AND DESCRIPTION OF PROPOSED PROGRAMME**

* Please include an abstract of the proposed programme.
* Then, provide a detailed description of the following:
  + Aim, key objectives and desired outcome(s).
  + Challenges to be addressed.
  + Novelty and innovativeness of the proposed idea(s) or concept(s).
  + Hypotheses and research methodology.
  + Comparative advantage of the proposed approach.

1. **SIGNIFICANCE AND POTENTIAL IMPACT OF PROGRAMME**

* Articulate how the programme can develop new and emerging capabilities that are relevant to existing industrial sector(s) or seed new growth sectors through building scientific peaks of excellence, beyond an 8-year timeframe.
* Address the global competitive landscape, and explain how the programme will set Singapore apart from its competitors.

1. **IMPLEMENTATION PLAN**

* Briefly describe each team member’s research background and technical competencies that are relevant to the programme, as well as roles and contributions to the programme.
* Describe the plans for interaction among the team members as well as engaging research groups in Singapore with complementary capabilities and expertise in achieving the research objectives.

1. **BUDGET REQUEST**
2. **Overall budget**

* Please indicate the overall funding required including the breakdown on budget requirement for manpower, consumables and equipment in the table provided below. Please also replicate the table for further breakdown according to each investigator involved in the programme. The following guidelines are to be used in the computation of the budgets.
* **Manpower (EOM):**

Funding of EOM should comply with the Host Institution(s)’s prevailing and consistently applied human resource guidelines.

* **Overseas Travel:**

Travel cost should only be used for purposes specific to this programme.

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| Manpower (EOM) | **Qualifications** | **No.** | Year 1($) | Year 2($) | Year 3($) | Total ($) |
| *Postdoctoral Fellow* |  |  |  |  |  |  |
| *Research Assistant* |  |  |  |  |  |  |
| *Laboratory Technician* |  |  |  |  |  |  |
| *Others* *(Pls specify)* |  |  |  |  |  |  |
| EOM Subtotal | | |  |  |  |  |
| Equipment (please list) | | No. | Year 1($) | Year 2($) | Year 3($) | Total ($) |
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|  | |  |  |  |  |  |
| Equipment Subtotal | | |  |  |  |  |
| Other Operating Expenses (OOE) | |  | Year 1($) | Year 2($) | Year 3($) | Total ($) |
| Materials & Consumables | | |  |  |  |  |
| Animal Cost (if applicable) | | |  |  |  |  |
| Others (pls state) | | |  |  |  |  |
| OOE Subtotal | | |  |  |  |  |
| Overseas Travel | | | Year 1($) | Year 2($) | Year 3($) | Total ($) |
| Overseas Travel (Includes overseas conference travel & overseas travel for purposes directly related to the research project) | | |  |  |  |  |
| Overseas Travel Subtotal | | |  |  |  |  |
| Total (Direct costs) | | |  |  |  |  |
| Overheads costs (20% of direct costs) | | |  |  |  |  |
| GRAND TOTAL | | |  |  |  |  |

1. **Justifications (where relevant):**

* **Animal Cost**

Please provide a breakdown on the proposed animal cost e.g., number of mice and/or cages.

* **Equipment**

For each piece of equipment ≥ SGD100,000, please justify the proposed purchase.

1. **DECLARATION OF ETHICS APPROVAL**

* The approval of the grant is subject to ethics approval. Please state if your study involves the following ethics categories and attach the ethics approval documentation, if applicable.

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| **Ethics Category** | **Involve?**  *(Y/N)* | **Please declare the participating institutions where study requiring ethics approval is conducted** |
| Human Subject |  |  |
| Use of Human Tissues or Cells from Primary Donors (i.e. subject / volunteers recruited for project) |  |  |
| Use of Commercially Available Human/Animal Tissues or Cells |  |  |
| Animal Experimentation |  |  |
| Requirement for Containment |  |  |
| Multi-centre Trial(s)  (if yes, please state all participating institutions / centres: \_\_\_\_\_\_\_\_) |  |  |

1. **MILESTONES AND DELIVERABLES**

* Propose the key deliverables and desired end outcomes that the programme aims to achieve within the period of funding including the no. of high impact publications.
* Please have a separate KPI table for each work package.

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| **KPI** | | | **Total Capability Indicators** |
| Publications in international scientific journals | Publications | IF< X1 |  |
| High Impact Publications | IF≥ X |  |
| No. of Oral Presentations at Conferences | | Local Conferences |  |
| International Conferences |  |
| No. of Joint Programs/Projects with local/international universities/organisations | | Local universities/organisations |  |
| International universities/organisations |  |
| No. of Ph.D. Students trained and/or graduated with a specialisation related to Deep Learning | | |  |
| Internationally Filed Patents | | No. of Technology Disclosures |  |
| No. of Primary Patent Application filed but not granted. |  |
| No. of Patents granted |  |
| No. of prototypes | | |  |

1Please note that X may be defined differently depending on each Work Package’s area of research. Of note, X is defined as Impact Factor X1, X2, X3 and X4 for Work Package 1, 2, 3 and 4 respectively. (This is an example, you may modify the values and number of work packages.)

* Propose detailed scientific milestones for the programme. These will be used to assess the progress of the programme, which will be taken into consideration for continued disbursements of funds.
* Please include a separate table for the milestones for each work package.

*\*Please use shading for the time points*

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| **Research**  **Milestones/**  **Deliverables** | **Year 1** | | | | **Year 2** | | | | **Year 3** | | | |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q1** | **Q2** | **Q3** | **Q4** | **Q1** | **Q2** | **Q3** | **Q4** |
| **Milestone 1** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Milestone 2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Etc.** |  |  |  |  |  |  |  |  |  |  |  |  |
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1. **OTHER FUNDING SUPPORT**

**Support from any industry partner(s), if applicable**

* Provide details on the funding or other resources provided by any participating industry partner(s), where applicable, for this programme.

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| **Items Supported** | **Funding Source** | **Amount of Fund ($)** | **Support Period (Year)** |
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**Grant Support**

* List all currently held or applied grants by the team member(s) that are related to this programme. These include those supported by / applied to A\*STAR, NMRC, Universities and other public funding agencies. Kindly attach the scientific abstract of each grant listed below for reference. Please also provide a brief explanation on how the scope of research under each grant (including this application) is different / relates to one another.

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| **Title of Research** | **Funding Agency** | **Amount of Fund** | | **Support Period (Year)** | **Expiry Date of the grant** |
| **Approved/ Received ($)** | **Balance Available ($)** |
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1. **CURRICULUM VITAE**

In no more than 2 pages per PI(s) / Co-I(s), please provide the following information:

* Name and affiliation
* Latest publications in the area described in this programme (list up to 10)
* Other key research achievements (e.g. patents, licenses, awards, spin-off companies, external consultancy etc.)

1. **DECLARATION FROM PROGRAMME LEAD(S) AND CO-I(S)**

I, the undersigned, declare that:

1. all information is accurate and to the best of my knowledge; and
2. similar versions or part(s) of this proposal have not been sent to other agencies for funding.

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Programme Lead(s) Signature, Name and Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Co-Investigator(s) Signature, Name and Date

1. **DECLARATION FROM HEAD(S) OF HOST INSTITUTION(S)**

It is certified that:

the Institution agrees to participate in this programme;

the Institution shall provide necessary facilities for implementing the programme; and

the Institution assumes financial and other management responsibilities for the duration of the programme to be carried out at their institution.

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Head of Host Institution Signature, Name and Date