NATIONAL
ADDITIVE MANUFACTURING INNOVATION CLUSTER

Project Funding Proposal Template

 **TITLE OF PROJECT**

Project Team:

Name, Designation, Organization

Name, Designation, Organization

## Overview [1000 words or less]

Please provide a clear outline of your proposed project. Describe the current landscape, gaps identified and the problem statement you plan to address. Explain the significance, importance and the benefits of addressing this problem statement. Describe objectives and commercial outcomes from this project - whether this will be implemented in production, or will generate licensable IP, or will be commercialized as a product or through a start-up or spin-off, etc. Highlight any important outcomes/impact on operations and business, such as the creation of a new line of business, and the GTM (go to market) strategy.

## Proposal Description [2000 words or less]

Treat this section as a way to further elaborate your project, provide technical details, or add information supporting your proposal. Elaborate the current and desired state of the technology, scientific / technological concept and approach, and the key innovations. Explain the level of technology involved (how new it is, examples of industries that have used the tech), and the project feasibility (any prior work demonstrated the preliminary outcome or development team’s experience to undertake project etc.). As much as possible, do not repeat information stated in section 1.

## Project Team and Company Background [1.5 pages or less]

Please divide into 2 sections. First section describes the brief background of the Principal or Co-Principal Investigator (PI or Co-PI) and the project team members, together with their respective role in the project. Second section elaborates the company background, this includes following:

* Company is established in (YEAR)
* Nature of business
	+ Core service:
	+ Core products:
	+ Exclusive deals or awards:
	+ Overseas presence & proportion of sales turnover:
	+ Other notable aspects of Company
* Current top revenue streams
* Brief background of founders/management
* 2-3 characteristics of the nature your industry
* Name key customers and competitors
* List the next development & growth plans/directions

## Deliverables, Milestones and Decision Points [1 Page or less]

Please provide clear deliverables for this project, with a timeline for each deliverable. If appropriate to your proposal, please provide any go-No go decision points. Use a tabular format or a Gantt chart. List down the potential Foreground IP (FIP) which includes patents, knowhow, etc.

## Project Outcome [0.5 pages or less]

Please provide a clear projected quantifiable outcome of the project and elaborate the commercialization path forward after project completion.

|  |  |  |
| --- | --- | --- |
| Project Outcomes | Estimated Value | Details |
| Jobs creation\* *(Estimate the number of new jobs & annual remuneration in S$)* |   |  |
| Launch of new product/service *(Estimate the additional gross revenues in S$)* |   |  |
| Market expansion\**(Estimate the additional gross revenues in S$)* |   |  |
| Cost Saving / Productivity Improvement\**(Estimate the annual financial gain ($) from cost saving and productivity improvement)* |   |  |
| Investment in AM capex\**(Estimate the subsequent investment in AM capex such as equipment, facility, etc.)* |   |  |
| Creation of new ventures (start-up/spin-off/JV) |   |  |
| IP Creation / IP licensing*(Estimate the number of Foreground IP(s) and licensing)* |   |  |
| Standards / Technical References (TR) (No. of standards/TR published or to be published) |  |  |
| Others |  |  |

\*Remark: To be filled in by industry collaborator where applicable

## Budget Estimation and Funding Requested [0.5 pages or less]

Please provide the estimated cost of the project under broad line items (Detail should be provided in Annex 1). Explain how much of the funding requirement will be provided by each party involved in this project.

## Risk Analysis [0.5 pages or less]

Please identify potential risks (i.e. technical, resources, project management, etc.) together with their respective mitigation/contingency/response plan.

## Schematics & other supporting information [2 pages or less]

Please provide any schematics, diagrams or tables that help support or clarify your project. Please ensure that these are clearly labelled and will be legible when printed on A4 paper and in black and white.

## ANNEX 1: Breakdown of Project Budget

|  |  |
| --- | --- |
| **Description** | **S$** |
| **A1. Cash contribution by NAMIC CLP to Host Institution** |  |
| Manpower (Please breakdown the details) |  |
| Consumables (Please breakdown the details) |  |
| OOE (Please breakdown the details) |  |
|  |  |
| Subtotal | A1 |
|  |  |
|  |  |
| **A2. Cash contribution by Collaborator to Host Institution** |  |
| Manpower (Please breakdown the details) |  |
| Consumables (Please breakdown the details) |  |
| OOE (Please breakdown the details) |  |
|

|  |  |
| --- | --- |
| Subtotal | A2 |

 |
|  |  |
| **B1. In-kind contribution by Host Institution** |  |
| Equipment |  |
| Please breakdown the details |  |
|  |  |
| Manpower |  |
| Please breakdown the details |  |
|  |  |
| Others |  |
| Please breakdown the details |  |
| Subtotal | B1 |
| **B2. In-kind contribution by NAMIC Hub** |  |
| Equipment |  |
| Please breakdown the details |  |
|  |  |
| Manpower |  |
| Please breakdown the details |  |
|  |  |
| Others |  |
| Please breakdown the details |  |
| Subtotal | B2 |
|  |  |
| **C1. Additional cash contribution by Collaborator\* (Not payable to Host Institution)**  |  |
| ConsumablesPlease breakdown the details |  |
|  |  |
| Other Operating Expenses (OOE)Please breakdown the details |  |
| Subtotal | C1 |
|  |  |
|  |  |
|  |  |
|  |  |
| **C2. In-kind contribution by Collaborator** |  |
| Manpower |  |
| Please breakdown the details |  |
|  |  |
| OOE/Equipment |  |
| Please breakdown the details |  |
| Subtotal | C2 |
|  |  |
| Total Project Direct Cost (A1+A2) |  |
| 30% Overhead Charge on Total Direct Project Cost |  |
| **Total Amount Payable to Host Institution** |  |

*\* C1 refers to additional cash contributed by the collaborator, not payable to Host Institution, to purchase new materials, consumables or other expenses specifically procured for the project.*

**NAMIC PEP Project Criteria Guidelines**

|  |  |
| --- | --- |
|  | Project Scope, Team, and Budget Criteria |
|  | Demonstration that the AM research and development is translational in nature and/or product driven, minimally at TRL 4 (3 for bio-medical)1 and beyond. |
|  | Project must address a clear business, market and/or industry need. |
|  | Clear commercialization plan or end point such as the launch of new product or service. |
|  | Generation of IP(s) that can be further licensed, developed and commercialized. |
|  | Project duration is less than 12 months for fast-track and 24 months for full project funding track. |
|  | Project team composition consists of domain expert(s), industry collaborator(s), and/or clinician collaborators (for biomedical application) |
|  | Project minimally meets 1:1 co-funding from industry and/or IHL collaborators (excludes NAMIC IHL contribution) with exception of standards development or translational project |
|  | No double dipping: Project PI and industry collaborator(s) do not solicit for other source(s) of funding concurrently to execute the same project. |
|  | The industry collaborator has presence in Singapore and is ACRA registered. Note :- For direct industry funding such as AM CDG, industry collaborator needs to adhere to ESG’s criteria2. |

1 <https://en.wikipedia.org/wiki/Technology_readiness_level> General Ref : US DoD definition.

2 https://spring.enterprisesg.gov.sg/Growing-Business/Grant/Pages/capability-development-grant.aspx

|  |  |
| --- | --- |
|  | Project Outcome and Impact Desired |
|  | Leads to a new product or business service.  |
|  | Leads to the creation of a new start-up or spin-off company. |
|  | Demonstrates regional or global market potential, with business scale-up plans.  |
|  | Creates social and/or economic impact to Singapore. |
|  | Leads to the adoption of AM with a view to transform the core business. |
|  | Strengthens Singapore’s know-how and global standing in strategic sectors i.e. water, energy, manufacturing, human capital retention etc. |
|  | Leads to the establishment of a foreign company’s establishing a presence in Singapore. |
|  | Generation of TR (Technical Reference) leading to SS (Singapore Standard) or ISO/ASTM Standard for industry adoption. |
|  | Develops and progresses Singapore’s human capital in various AM domains. |
|  | Creates a new product/market segment and enable new business models. |
|  | Creates high value-added jobs. |