NATIONAL
ADDITIVE MANUFACTURING INNOVATION CLUSTER

Project Funding Proposal Template

**Capability Development Grant (CDG) Application**

 **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.

## 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.). Elaborate how the technology innovation will benefit your company and highlight any important outcomes/impacts on operations and business, such as the creation of a new line of business, creation of “good” jobs, access to new market segments and the GTM (go to market) strategy.

## 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 Name
* Address
* Contact Person
* Contact Person No.
* Contact Person Email.
* CEO Name
* Paid Up Capital
* ACRA records
* Unique Entity Number (UEN)
* Company is established in (YEAR)
* Group Annual Sales Turnover (S$)
* Group Employment Size
* > 30% Local Shareholding?
* Shareholding Structure
* Holding Companies & Subsidiaries Details (Name, UEN, Relationship to Applicant Coy, Employment Size, Shareholding %, Remarks)
* Nature of current business
	+ Core service:
	+ Core products:
	+ Key technologies:
	+ Exclusive deals or awards:
	+ Overseas presence & proportion of sales turnover:
	+ Other notable aspects of Company
* Current top revenue streams
* Brief background of founders/management
* Name key customers and competitors
* List the next development & growth plans/directions

Please also provide the latest ACRA report and audited financial statement (last two years).

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

Please provide clear deliverables for this project, with a timeline for each deliverable. Use a tabular format or a Gantt chart. List down the potential FIP (Foreground IP) which includes patents, knowhow, trademarks, etc. Specify also the knowledge transfer plan (when applicable).

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

Please provide the estimated cost of the project (Detail should be provided in **Annex 1**).

## Enterprise Value Creation

## Please provide the projected quantifiable outcome of the project – VA created (refer to Annex 2).

## Risk Analysis [0.5 pages or less]

Please identify potential risks (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 Cost

**Manpower**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Designation | Project Role | Involvement (Months) |
|  |  | Leader |  |
|  |  | Member |  |
|  |  | Member |  |

**Airfare**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Country | Name | Designation | No. of Trips | Days per Trip | Airfare per Trip (S$) | Cost (S$) |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Training**

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Location | Duration (Days) | Cost (S$) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Equipment**

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Unit Cost (S$) | Quantity | Cost (S$) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Software**

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Unit Cost (S$) | Quantity | Cost (S$) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Consumables**

|  |  |
| --- | --- |
| Description | Cost (S$) |
|  |  |
|  |  |
|  |  |

**Consultancy**

|  |  |  |
| --- | --- | --- |
| Description | Consultancy Firm | Cost (S$) |
|  |  |  |
|  |  |  |
|  |  |  |

**Acquisition**

|  |  |
| --- | --- |
| Description | Cost (S$) |
|  |  |
|  |  |
|  |  |

**Certification**

|  |  |
| --- | --- |
| Description | Cost (S$) |
|  |  |
|  |  |
|  |  |

**ANNEX 2: Breakdown of Projected Project Outcome**

|  |  |  |
| --- | --- | --- |
|  | Now | After project |
|  | Last FY | Year 1 | Year 2  | Year 3 |
| Year (example) | 2016 | 2017 | 2018 | 2019 |
| a. Revenue (SGD) |  |  |  |  |
| b. Net Operating Profit/Loss (before Tax)(SGD) |  |  |  |  |
| c. Remuneration (SGD) |  |  |  |  |
| d. Depreciation (SGD) |  |  |  |  |
| e. Indirect taxes and levies \* |  |  |  |  |
| f. No. of PMET jobs |  |  |  |  |
| g. No. of non-PMET jobs |  |  |  |  |
| h. Total Staff Strength (e + f) |  |  |  |  |
| Rationale for Projections:  |

\*Indirect taxes include foreign worker levies, property taxes, road tax, license fees, stamp duties but exclude corporate taxes and personal income taxes**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. |