**DIN Pilot Projects 2.0
APPLICATION FORM**

For more information regarding the process, please refer to the Guidelines or contactinfo@defenceinnovationnetwork.com

1. **PROJECT OVERVIEW**

|  |  |
| --- | --- |
| **Project name**  |  |
| **Lead organisation** |  |
| **Contact person/ci** |  |
| **Contact email** |  |
| **Phone** |  |
| **INDICATIVE PROJECT DATES** |
| **Start date:** |  |
| **End date:** |  |
| **Project duration (months)** |  |
| **PROJECT CONTRIBUTION** |
| **DIN funds ($)** |  |
| **Partner cash funds ($)** |  |
| **In-kind ($)** |  |

1. **CURRENT PROJECT STATUS AND ACHIEVEMENTS**

**Description**

Provide a concise explanation of the capability achieved (what it does and how it does it), thanks to the initial Pilot Project funding, and describe significant results, outcomes and benefits arising from the project.

**Differentiator**

Briefly describe what distinguishes this capability from other available capabilities. What is unique about the capability and its application?

1. **PILOT PROJECT 2.0 DETAILS**
2. **EXCELLENCE (25% weighting; <2 pages)**

This component will focus on excellence targeting the production of an advanced prototype. Applicants should provide a detailed and credible plan of envisaged tasks that will advance the level of maturity of the proposed emerging technology. There will be some tolerance for exploratory work within the project plan when the nature of the exploratory work helps to refine the capabilities of the technology, but the focus should be firmly on maturing the technology to higher TRL levels.

**Objectives**Consider the duration and scope of the project – what sort of deliverables can be accomplished within these constraints? Bear in mind the production of a prototype product.

**Methodology/approach:**The methodology to be applied to achieve the outcomes related to the production of the prototype. This should provide enough detail to assess skills, expertise, application and feasibility. Detail any required instrumentation, facilities, track record and support.

**Hypothesis or research questions**
These should help provide a basis for rapid go/no-go decision-making on feasibility, scaling up research, follow-up testing and evaluation, and paths to commercialisation.

**Project milestones/ outputs**

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| --- | --- | --- |
| **Milestones** | **Responsible**  | **Date due** |
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1. **IMPLEMENTATION PLAN (25% weighting; <2 pages)**

The plan should provide a detailed set of tasks and validation steps that will demonstrate the achievement of TRL levels and pathway to implementation or commercialisation. The below links provide guidance on the complex nature of advancing TRL as the technology moves past the early prototype towards the advanced prototype stage. Concepts such as productisation and ruggedisation fall into scope within this section. The plan should delineate tasks in such a way that the individuals and organisations responsible for specific tasks are clearly identifiable.

This should link to the **Team** section below. Applicants should emphasise specific elements to be demonstrated, by which the attainment of the next TRL level will be achieved, using multiple criteria as set out in the files. End-user feedback and commercialisation partner participation should be identified and incorporated at appropriate points of time in the Implementation Plan.

[JPL Technology Readiness Level Assessment Guideline](https://www.researchgate.net/publication/303691469_JPL_Technology_Readiness_Level_Assessment_Guideline)

[TRL assessments for various disciplines](https://www.britishcouncil.id/sites/default/files/annex_2_technology_readiness_level_trl_033020_final.pdf)

Applicants should provide an assessment of the current TRL of their emerging technology using credible and multicriteria assessments based on the files provided in the links above. Projects below a demonstrated current level of TRL 4 will not be considered.

**Anticipated outcomes and impact**Briefly summarise the likely impact and benefits, specifically the potential game-changing capabilities and technologies likely to arise from the project. Benefits to Defence and Defence Industry, the commercial potential of the expected outputs and any spill-over benefits (e.g., dual use applications, platform technology). Implementation pathway (i.e., what does the future of the project entail or require to continue its trajectory to market).

'Impact' will be measured by one or more of scale, extent, and urgency of Defence need or transformative nature of the outputs (i.e. creating altogether new technologies or solutions).

'Scale' means the size, or how much, the outcomes will benefit Australia and Defence.

'Extent' means how widely the outcomes will benefit Australia or Defence.

**Technological Readiness Level**

Include estimates for your capability’s maturity timeline. Please note various indicators that must be met before achieving the next TRL. Once your project meets the indicators at TRL 4, for example, your project then moves to TRL 4.

**Start TRL (after initial Pilot Project funding):**  Choose an item.

**End TRL (estimate at the end of Pilot Project 2.0):** Choose an item.

Describe how you plan to get there. What tests will you conduct to show that you have achieved the TRL level?

**TRL 9 – Projected Date** Click or tap to enter a date.

Briefly describe how you plan to get here.

**Implementation plan**Describe steps and resources needed for the project/ technology to progress to a more mature phase. Explain very briefly how your product or technology will move on the TRL scale and what commercial readiness activities you will undertake, and at what points. E.g., connect to potential commercialisation partners, sign MoU, create a prototype, develop systems engineering plan, types and sources of funding, and resources can potentially assist at each step of the way.

**Commercialisation partners**What is the role of the industry partner/s in the commercialisation process? Identify companies that could potentially help to get the product or technology to the market. Specifically identify credible routes to market, either through existing commercial entities or through the establishment of licensing agreements, or spin-out entities. Detail existing or planned commercial arrangements, specific role of the partners, etc. Please include the name and website link. This also applies to projects where an industry partner is not part of the proposal. (Please add more lines if needed.)

|  |  |  |
| --- | --- | --- |
| **Company name** | **Website** | **Existing connection (y/n)** |
| Click or tap here to enter text. | Click or tap here to enter text. | Choose an item. |
| Click or tap here to enter text. |

1. **POSITIONING (25% weighting; <2 pages)**

Applicants should provide a critical competitor analysis that highlights the position of the proposed emerging technology within the landscape of existing or emerging solutions. The analysis should directly compare and contrast existing systems (commercialised or at any stage of development) against the proposed emerging technology. Applicants are encouraged to take account of the patent literature, open literature, and company websites/media releases.

**Critical Competitor Analysis**Provide a comparison of existing systems against the proposed technology.

**Risk analysis to project achievement, potential to be surpassed by events**Objective analysis of project strengths, competitors, project differentiation.

1. **TEAM**

Applicants should provide a detailed analysis of the skills and expertise required to maximise the chances of success to produce an advanced prototype and demonstrate the achievement of TRL levels. Any specialised facilities required to support the productisation process should be specified. This section should detail how the assembled team, including commercialisation partners and Defence points of contact, are able to satisfy the analysis conducted above.

**Analysis of skills and competencies required**Provide a complete and compelling analysis of the skills, facilities and capabilities required to fulfil the construction of a prototype. Include references to the Methodology section as required for context. For example, when moving from TRL 5 to TRL 6, some of the TRL assessment criteria require system integration and generation of a unit with high fidelity to the planned production unit. This may require, for example, a systems engineer in the team, which may not necessarily be required when moving from TRL 4 to TRL 5.

**Team details and roles**
The team must contain participants from at least two DIN member universities. Teams should demonstrate that they possess world-leading and complementary skills meeting the needs analysis above and that the project participants have assembled an appropriate team of experts to ensure delivery of the prototype.

**Industry partner**
If an industry partner is part of your project, please provide more details. Add rows if needed.

|  |  |
| --- | --- |
| **Name:**  | Click or tap here to enter text. |
| **ABN number:** | Click or tap here to enter text. |
| **Website:** | Click or tap here to enter text. |
| **Contact Person:** | Click or tap here to enter text. |
| **Email:** | Click or tap here to enter text. |
|  |  |
| **Category:** | Choose an item. |
| **No of employees:** | Click or tap here to enter text. |
| **Annual turnover:** | Click or tap here to enter text. |
| **Company’s description including profile and product information:**  | Click or tap here to enter text. |

**Contributions from Defence or other third parties**FTE in-kind contribution, non-staff in-kind contributions (infrastructure support for DIN funded staff, other in-kind contributions (for the use of equipment, laboratories, etc.). Include details on end-user consultations (existing and planned), commercialisation activities (e.g., market testing, MoU, etc.).

**Team diversity**
DIN encourages the participation of diverse project teams in the program. Please explain how the team meets the diversity requirements (gender, culture, career seniority, etc.)

**Project Intellectual Property (IP) shares**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Participant** | **Nationality** | **Email** | **IP (y/n)** | **Indicative IP share (%)** |
| **Lead organisation:** |
| *Investigator 1* |  |  |  |  |
| *Investigator 2* |  |  |  |  |
| *Investigator 3* |  |  |  |  |
| **Collaborating organisation 1:**  |
| *Investigator 1* |  |  |  |  |
| *Investigator 2* |  |  |  |  |
| *Investigator 3* |  |  |  |  |
| **Collaborating organisation 2:** |
| *Investigator 1* |  |  |  |  |
| *Investigator 2* |  |  |  |  |
| *Investigator 3* |  |  |  |  |
| **Collaborating organisation 3:** |
| *Investigator 1* |  |  |  |  |
| *Investigator 2* |  |  |  |  |
| *Investigator 3* |  |  |  |  |
| **Total** |  |  |  | **100%** |

**Intellectual property**Overview of IP Agreement

1. **Budget**

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| --- |
| **Lead organisation** |
| **Salary expenses****Staff name** | **Details (position, level)** | **Base salary $** | **FTE %** | **Salary on-cost max 30%** | **Total salary $** | **In-kind $** | **DIN cash $** |
| Investigator 1 |  |  |  |  |  |  |  |
| Investigator 2 |   |  |  |  |  |  |  |
| Investigator 3 |  |  |  |  |  |  |  |
|  |  |  |  |  |
| **Other expenses****Category** | **Details** | **Total $** | **In-kind $** | **Din cash $** |
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|  |  |  |  |  |
| **TOTAL SALARY+OTHER EXPENSES** |  |  |  |

|  |
| --- |
| **Collaborating organisation 1** |
| **Salary expenses****Staff name** | **Details (position, level)** | **Base salary $** | **FTE %** | **Salary on-cost max 30%** | **Total salary $** | **In-kind $** | **DIN cash $** |
| Investigator 1 |  |  |  |  |  |  |  |
| Investigator 2 |   |  |  |  |  |  |  |
| Investigator 3 |  |  |  |  |  |  |  |
|  |  |  |  |  |
| **Other expenses****Category** | **Details** | **Total $** | **In-kind $** | **DIN cash $** |
|  |  |  |  |  |
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|  |  |  |  |  |
| **TOTAL SALARY+ OTHER EXPENSES** |  |  |  |

|  |
| --- |
| **Collaborating organisation 2** |
| **Salary expenses****Staff name** | **Details (position, level)** | **Base salary $** | **FTE %** | **Salary on-cost max 30%** | **Total salary $** | **In-kind $** | **DIN cash $** |
| Investigator 1 |  |  |  |  |  |  |  |
| Investigator 2 |   |  |  |  |  |  |  |
| Investigator 3 |  |  |  |  |  |  |  |
|  |  |  |  |  |
| **Other expenses****Category** | **Details** | **Total $** | **In-kind $** | **DIN cash $** |
|  |  |  |  |  |
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|  |  |  |  |  |
| **TOTAL SALARY+ OTHER EXPENSES** |  |  |  |

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| --- | --- | --- | --- |
| **TOTAL PROJECT EXPENSES****(ALL COLLABORATING ORGANISATIONS)** | **IN-KIND $** | **DIN CASH $** | **PARTNER’S CASH $** |
|  |  |  |  |

I’ve attached a breakdown of the salary on-cost expenses as per university policy[ ]

**Budget justification**Include how DIN funding will be used.

1. **Special conditions**

*Any conditions that DIN should be aware of? E.g., security, ethics approvals, go/no-go decisions, success conditions, clinical trials reliance, payment of project fund etc.*