

## Call for Proposals – JSF Industry Capability Development Program

### 1- Introduction

The Defence Materials Technology Centre (DMTC) is a not for profit collaborative venture that brings together defence, industry, universities and government research agencies to develop technologies that will enhance Australia’s defence and national security capability.

The DMTC is seeking expressions of interest from industry and research organisations to develop and enhance Australian industry capabilities in support of the Joint Strike Fighter (JSF) Program.

DMTC is working with the Australian Department of Defence’s JSF Division and Defence Science and Technology (DST) Group to identify improvement and innovation opportunities for development, through DMTC. This collaborative approach will assist Australian companies to contribute to a strong industry base that supports the JSF capability and provides long-term national economic benefits. Air Vice-Marshal Gordon, Head Joint Strike Fighter has provided DMTC with a letter of support for this program.

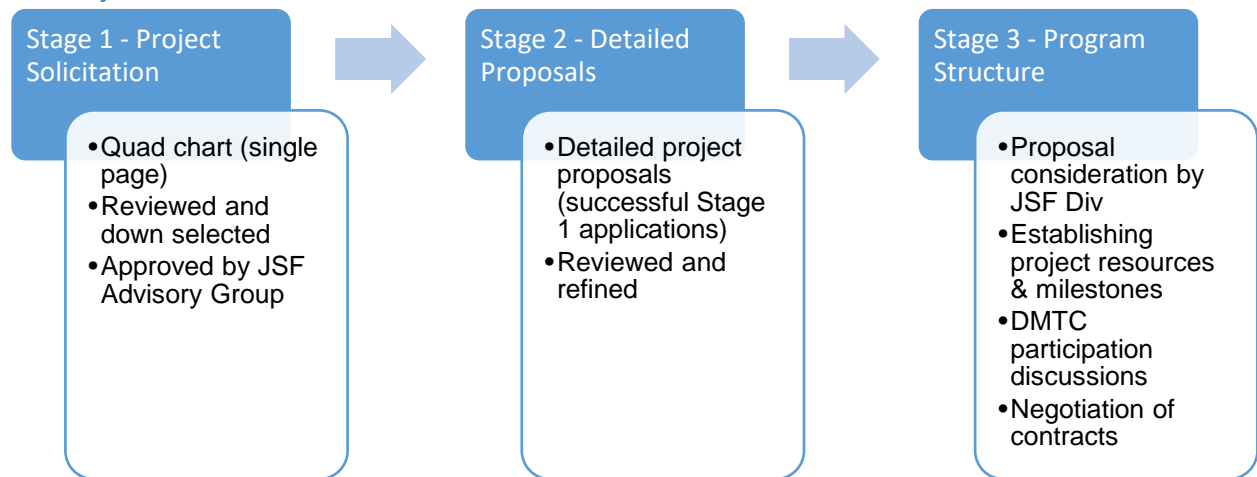
DMTC’s program can also assist Australian companies that have already won JSF production contracts to continue to innovate and maintain a competitive position within the global supply chain. The program will identify opportunities to develop sustainment and follow-on modification and upgrade capabilities to support the JSF platform in-service. Longer-term platform capability upgrade opportunities will also be considered based on Defence priorities.

### 2- Target Technology Development Themes

Technology areas being considered include (but are not limited to) those in the table below:

	<b>Production</b>	<b>Sustainment</b>	<b>Capability Upgrade</b>
<b>Global Supply Chain Opportunities</b>	<ul style="list-style-type: none"> <li>• CNC Machining</li> <li>• Composites manufacturing</li> <li>• Additive Manufacturing</li> <li>• Processing &amp; metal finishing</li> </ul>	<ul style="list-style-type: none"> <li>• Structural health monitoring</li> <li>• Prognostics</li> </ul>	<ul style="list-style-type: none"> <li>• Power; size &amp; weight</li> <li>• Canopy frame replacement</li> </ul>
<b>Local Opportunities</b>		<ul style="list-style-type: none"> <li>• Corrosion / degradation</li> <li>• Coating repair &amp; assessment</li> <li>• Composite repair</li> <li>• New sustainment technologies (additive manufacturing, etc.)</li> </ul>	
		<ul style="list-style-type: none"> <li>• Test &amp; evaluation methodologies</li> </ul>	
		<ul style="list-style-type: none"> <li>• Sensors</li> </ul>	

### 3- Project Solicitation Process



#### Stage 1:

- The Quad Chart (see template and example attached) will be used as expressions of interest by applicants wishing to participate in the program.
- A Quad Chart submission must:
  1. Research Themes – DMTC does not wish to be too prescriptive on technology themes, however proposal should either fit into or be aligned with the target research ‘themes’ as described in Section 2;
  2. Technology Readiness Level (TRL) – DMTC typically works in the TRL range of 3-7, however will consider earlier TRL stage proposals with the view to work with DST Group on where these projects may fit within the Defence Innovation Framework. A TRL guideline is attached for guidance;
  3. Outline:
    - Reasonable Order of Magnitude (ROM) cost to complete the research described;
    - targeted final TRL; and
    - duration (no more than 5 years).
  4. Break down of in-kind contributions to be made by the applicants:
    - DMTC projects are typically funded through a combination of financial and in-kind contributions by Government, Industry and Research sector participants;
    - Membership of the DMTC facilitates financial contributions; and
    - The cash value of a project is typically matched by ‘in-kind’ contributions. Examples of ‘in-kind’ contributions include access to testing or fabrication facilities, materials, personnel, etc. contributed to the project free of charge.
  5. The relevance of the project to defence or national security, focused on or aligned with the JSF Platform.
- After closure, Quad Charts will be reviewed by a JSF Stakeholder Group.

**Quad Charts are due on April 13, 2017 at 5pm.**

**Stage 2:**

- Successful down-selected proposals from Stage 1 will be contacted for more detailed proposals. Successful applicants will be notified by 24 April, 2017;
- Detailed proposals will provide additional information on required resources, participant contributions and technical milestones and outcomes;
- Detailed proposals will be reviewed by a JSF Stakeholder Group; and
- Successful detailed proposals will form the basis of a resourced DMTC Program with technical milestones outlined to be taken to the JSF Division for consideration.

**Stage 3:**

- The DMTC Proposal will be considered by JSF Division;
- Detailed project agreements with resources and milestones outlined will be developed;
- DMTC participation discussions will be held;
- Negotiation of contracts conducted; and
- Launch of the new DMTC Program.

#### 4- Why DMTC?

DMTC offers a proven track record of performance, effective relationships with Defence and with many SMEs and primes in the sector, and an operating model that works for Defence, including intellectual property structure and program management capability.

DMTC is a public, not-for-profit company limited by guarantee. The funding to develop new materials and manufacturing technologies is drawn from several sources including the Commonwealth Government, State Governments and program participants (industry and the research sector).

#### 5- Program Contact

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