



Science and Engineering
Research Council

PREPARING A CASE FOR SUPPORT

INSTRUCTIONS:

- The application form should cover all the **TEN points** outlined here.
 - Please do not exceed **TWELVE pages** for this section.
 - **Relevant privileged or confidential information should be disclosed to help convey a better understanding of the proposal. Such information must be clearly marked in the proposal.**
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(1) DETAILED METHODOLOGY (NO MORE THAN 6 PAGES)

PI should describe in detail:

- the methods and technical approach chosen,
- the alternatives that have been or can be considered,
- why the chosen methods were preferred, and
- whether the investigation is to occur in stages and if the stages would be sequential or parallel.

(2) TECHNICAL CHALLENGES

- PI should describe the technical challenges of the proposed approach and explain: how/why such challenges have prevented others from making similar attempts,
- known constraints that may affect the project, and
- fall-back/contingency plan where technical challenges cannot be overcome.

(3) NOVELTY OF THE APPROACH

PI should highlight succinctly the novelty of the proposed approach.

(4) COMPETITORS

PI should mention who else in the world are working in similar areas and highlight the key/main competitors.

(5) COMPARATIVE ADVANTAGES OF THE APPROACH

PI should highlight why the proposed approach is better than those of the key competitors mentioned in point 4.

(6) EXPERTISE & EFFORT LEVEL OF PI

PI should describe his

- research background,
- technical competencies,
- involvement (eg. in terms of man-months per year), and
- achievements that are relevant and necessary in ensuring success for the proposed research.

(7) EXPERTISE, ROLES & CONTRIBUTION OF CO-PIs & COLLABORATORS

CO-PIs and collaborators should describe their

- research/industry background,
- technical competencies,
- role and contribution to specific deliverables, and
- achievements that are relevant and necessary in ensuring success for the proposed research.

(8) ADMINISTRATION OF FUNDS

PI should indicate how the funds would be distributed to the CO-PIs (note that funds cannot be allotted to collaborators).

(9) MANPOWER & EQUIPMENT JUSTIFICATION

PI should elaborate in detail the reasons for the requested manpower and equipment. For manpower, the PI must detail the specific contribution of each staff to the deliverables as well as highlight the technical challenges faced by each staff. For each piece of equipment, the PI must justify its purchase and show how it contributes to the deliverables of the project.

(10) PREVIOUS PRELIMINARY WORK

PI should describe previous works that are related to this proposal and any preliminary results that would help support this proposal.