

EXPRESSION OF INTEREST

AUSTRALIAN ARMY RESEARCH SCHEME – AARC 01/2023

PART 1 - STATEMENT OF REQUIREMENT

1. INTRODUCTION

1.1 Australian Army Research Scheme

1.1.1 The Australian Army Research Centre (AARC) is seeking expressions of interest from service providers to undertake paid research on topics that will inform future land force development and modernisation. The research outcome sought is a stand-alone Occasional Paper, a journal article and a Land Power Forum piece (see Section 2.). Army will facilitate publication of research in the first instance in the Occasional Papers Series, the *Australian Army Journal* and the Land Power Forum.

1.2 Selection process

1.2.1 The selection of Service Providers to deliver the Army Research Scheme (ARS) will be conducted in two parts.

1.2.2 Part 1: An Expression of Interest from Service Providers to provide information to understand proposed research topics and the relationship to the Research Questions below. Selected Service Providers may be engaged to provide further understanding of their submissions.

1.2.3 Part 2: Selected Service Providers will be invited to submit a detailed response that would include methodology, timeline, costs etc.

2. DELIVERABLES

2.1 Deliverable summary

2.1.1 The deliverables to be produced by Service Providers under the ARS are as follows:

2.1.1.1 Occasional Paper: not less than 15,000 words up to a length of 20,000 words (excluding footnotes).

2.1.1.2 *Australian Army Journal* article: 4,000-6,000 words (excluding footnotes).

2.1.1.3 Land Power Forum short article: 800-1,200 words (excluding footnotes).

3. RESEARCH QUESTIONS

3.1 Army's Questions

3.1.1 Topical areas of current research interest to Army include:

Question 1: What considerations must the Australian Army consider in the event of rapid mobilisation and expansion, including the role of the Reserve workforce and Army's intersection with industry?

Question 2: How can land forces, as part of the Integrated Force, be best employed for littoral operations in the Indo-Pacific?

Question 3: What opportunities and liabilities might a structured train, advise and assist capability bring for the generation and sustainment of land power?

Question 4: What risks do advances in global alternative power and energy solutions pose for Defence?

Question 5: What are the most promising applications of Quantum Technologies in the field of Quantum Sensing, computing and communications?

Question 6: How can Army (and the ADF) scale the adoption of remote and autonomous systems (RAS)? What challenges might there be to implementation and how could they be overcome?

Question 7: How can the joint land force contribute to operations less than war in an age of constant competition?

Question 8: What opportunities exist for the utilisation of land power within the 'National Defence' concept as espoused by the 2023 *Defence Strategic Review*?

Question 9: What are the logistics and/or workforce ramifications to Army of increased operations across an enhanced network of northern Australian bases?

Question 10: Discuss the implications on the combined arms fighting system with renewed emphasis on long-range fires.

4. RESPONSE

4.1 Service Provider Response

4.1.1 Service Providers can provide a response against one question or against multiple questions. Service Providers can provide multiple responses. Each response is to be a standalone response.

4.1.2 Service Providers are to complete Part 2 – Response and submit the Response as per Part 3 clause 3.1.

4.2 Clarification Questions

4.2.1 Clarification questions are to be submitted as per Part 3 clause 2.5.