NSID003 Postdoc: Analytical Science

Location: Edinburgh, South Australia

Overview:
As member of DST Group's National Security and Intelligence, Surveillance and Reconnaissance Division, you will contribute to identifying future analytic processes for social domains of interest within a technologically mediated context. This position will work closely with multi-disciplinary teams to support Australia's National Security research programs, with mid-term (3-5 years) and long-term horizons, guided by the following considerations:

   a) Maximising the situational awareness of analysts;
   b) Understanding social context in 'Big Data';
   c) Achieving best practice for the analysis of the human domain; and
   d) Developing implementable theories of social influence.

There is flexibility to tailor this role to the skillset of the successful applicant; however applicants require a blend of human/social sciences with computational linguistics, mathematics, or computer science to be considered for the role

Academic Requirement:
A PhD in one of the following areas as well as formal qualifications in one or more of the other listed areas (or similar):
   • Sociology/Anthropology
   • Psychology
   • Mathematics/Statistics
   • Artificial Intelligence
   • Natural Language Processing

Other Role Specific Requirements:

Demonstrated experience with any or all of the following:
   • Sound background in social science for the development of tools that support the analysis of socio-cultural factors;
   • Experience in knowledge representation and reasoning with the ability to analyse and formalise complex and abstract concepts;
   • Development of theory and methods for network-oriented approaches to the analysis of social data;
   • Broad computer science skills enabling the coding, querying and analysis of social context
   • Development of human and social conceptual theory and methodologies relating to social influence; and/or
   • Working within a multi-disciplinary team whose main focus is the development of social systems modelling techniques and analytical tools;

Notes:
Appointees will be initially engaged on a **Negative Vetting 1** security clearance with an Organisation Suitability Assessment required before commencement for upgrade to a **TS-PV Security Clearance** requirements.

Written Application Position Specific Question: (400 words max)

Describe your experience with development of conceptual theories for human and social modelling, the technologies you have employed in the analysis and coding, and any software implementations of the conceptual theories you have undertaken.