

## POSITION DESCRIPTION

### SBAS Testbed Project Manager

#### COOPERATIVE RESEARCH CENTRE FOR SPATIAL INFORMATION (CRCSI)

**Time Fraction:** 1.0 FTE

**Place of Work:** Flexible. Melbourne, Sydney, Brisbane or Canberra preferred.

#### 1. POSITION SUMMARY

This position is a fixed two year appointment.

The Australian Government, through Geoscience Australia will run a two year Satellite-Based Augmentation System (SBAS) testbed in Australia and New Zealand during 2017-2018. SBAS utilises space-based and ground-based infrastructure to improve the accuracy, integrity and availability of basic Global Navigation Satellite System signals, such as those provided by the Global Positioning System. The project will test the effectiveness of the technology and will deliver economic benefits analyses across nine industry sectors (agriculture, aviation, construction, maritime, mining, rail, road, spatial, and utilities) to inform future investment decisions. The CRC for Spatial Information will play a facilitation role in the project through this position.

Working closely with the SBAS testbed team, this role will work at the industry-academic-government interface, developing and facilitating demonstrator projects in the areas of interest. This will include soliciting and managing the suite of application projects built on the testbed. As the testbed commences, the testbed project manager will manage and monitor project progress. Success will be measured by industry participation in the testbed and the production of a business case that demonstrates the need for a SBAS capability against existing technologies and approaches.

#### 2. SELECTION CRITERIA

##### 2.1 Essential

1. Significant (5+ years) experience in the management of complex technology development and demonstration projects
2. Demonstrated ability to strategically grow or maintain existing industry relationships.
3. Demonstrated ability to communicate effectively and interact with professionals in research organisations, government and industry. Expert capacity to elicit user requirements, scope plans with research teams and negotiate commercial terms and conditions.
4. Demonstrated ability to relate scientific and engineering skills and knowledge, primarily in research organisations, to the current and prospective needs of industry and government thereby matching needs with capability.
5. Track record in the creation of business cases in support of new technology adoption
6. Excellent written and oral communication, and very good interpersonal skills
7. A collaborative mindset and track record in bringing together and managing industry-government-academic partnerships.
8. A willingness to travel both domestically and internationally. Frequent travel to Canberra, Melbourne and New Zealand is anticipated.

##### 2.2 Desirable

1. Domain knowledge in GNSS and SBAS. An understanding of current and emerging positioning technologies and their application to existing and new industry domains.
2. A degree in surveying, spatial science or a related branch of engineering.

3. A working knowledge of project management methodologies and software– e.g. PMBOK, Prince2, or Agile and working with collaborative project management tools such as JIRA.

### 3. RESPONSIBILITIES

The coordinator will ensure the necessary work package definition documents are in place at the commencement of each phase, monitor progress through checkpoint reports, and ensure work package completion reports are delivered. Reports and regular updates are to be delivered to the Steering Committee. The coordinator will need to work closely with the Steering Committee, Geoscience Australia and the CRCSI. The position reports to the CRCSI Research Director.

More details on complementary activities within the Positioning Program can be found at: <http://www.crcsi.com.au/research/1-positioning/>.

Responsibilities:

- Project proposal development and facilitation
- Project management
- Administration and reporting of the Project suite;
- Providing support to the Project Steering Committee;
- Ensuring the timely delivery of the different work packages throughout the project schedule;
- Facilitating collaboration between research, government and industry participants; and
- Providing strategic leadership and communications material to all project teams.

The role will work with the SBAS project team, including private industry, Geoscience Australia, New Zealand Government, and other Australian Federal and State Government, and universities together with the CRCSI Business Development team.

### 4. REQUIREMENTS

#### 4.1 Introduction

The framework for the key requirements of this position has been derived from the Integrated Leadership System developed and operated by the Australian Public Service for the Australian Government. The ILS provides a structure for guiding leadership and management activities throughout the CRCSI. It enables consistency in describing positions, behaviours, values, performance evaluation and professional development.

#### 4.2 Core Capabilities

There are five core capabilities that comprise the framework:

- Shaping strategic thinking
- Achieving results
- Cultivating productive working relationships
- Exemplifying personal drive and integrity
- Communicating with influence.

A detailed description of the expectations of the role in relation to five core capabilities, taking into account the three elements of leadership is set out below:

##### 4.2.1 Strategic Thinking

Inspires a sense of purpose and direction. Translates the strategy into operational goals and creates a shared sense of purpose within the CRCSI and the Testbed Project. Engages others in the objectives of the Project, encourages their contribution and communicates expected outcomes.

***Shows judgement, intelligence and common sense***

Gathers and investigates information from a variety of sources. Undertakes objective, critical analysis and distils the core issues. Presents logical arguments and draws accurate conclusions. Anticipates and seeks to minimise commercial risks and impediments to business opportunities. Breaks through problems and weighs up the options to identify solutions. Applies lateral thinking and identifies innovative solutions for consideration by CRCSI and Testbed Project.

**4.2.2 Achieves Results**

***Builds organizational capability and responsiveness***

Focuses on activities that support organisational sustainability. Investigates ways to improve effectiveness by harnessing technology and implementing continuous improvement activities. Builds teams with complementary skills. Responds flexibly to changing circumstances, deploys resources astutely and identifies optimum resourcing combinations. Creates a flexible environment that enables others to meet changing demands.

***Steers and implements change and deals with uncertainty***

Establishes clear plans and timeframes for project implementation and outlines specific activities. Operates effectively in an environment of ongoing change and uncertainty and maintains flexibility. Actively ensures stakeholders are kept informed during times of change.

***Ensures closure and delivers on intended results***

Drives a culture of achievement. Ensures ideas and intended actions become reality and that planned projects result in expected outputs. Strives for quality, and ensures compliance with regulatory requirements. Puts systems in place to establish and measure accountabilities. Manages risks that may impede on project outcomes and ensures that key stakeholders are across all relevant issues.

**4.3.3 Cultivating Productive Working Relationships**

***Nurtures internal and external relationships***

Builds and sustains relationships with a network of key people internally and externally. Recognises shared agendas and works toward mutually beneficial outcomes. Anticipates and is responsive to internal CRCSI and external partner needs.

***Facilitates cooperation and partnerships***

Brings people together and encourages input from existing and potential new stakeholders. Finds opportunities to share information and ensures that others are kept informed of issues. Facilitates cooperation within and between organisations. Promotes the reciprocal sharing of information to build knowledge. Resolves conflict using appropriate strategies and manages the sensitivities involved.

**4.3.4 Exemplifying Personal Drive and Integrity**

***Engages with risk and shows personal courage***

Provides impartial and forthright advice. Challenges important issues constructively. Takes responsibility for mistakes and learns from them. Seeks guidance and advice when required. Operates professionally and within the boundaries of organisational processes and including legal and policy constraints

***Commits to action***

Commits to achieving key outcomes for the organisation. Demonstrates personal drive, focus and energy. Galvanises others to act. Acts decisively and initiates urgent action to overcome difficult problems.

***Displays resilience***

Persists and focuses on achieving CRCSI objectives even in difficult circumstances. Monitors own emotional reactions and responds to pressure in a controlled manner. Overcomes obstacles and rapidly recovers from setbacks. Displays a positive outlook in difficult situations.

***Demonstrates self-awareness***

Examines own performance and regularly seeks feedback from others. Confidently promotes areas of strength, acknowledges development needs and proactively identifies learning opportunities. Reflects on own behaviour and recognises the impact on others.

**4.3.5 Communicating with Influence**

***Communicates Clearly***

Confidently presents messages in a clear, concise and articulate manner. Focuses on key points for the audience, uses appropriate, unambiguous language, explains the implications and ensures the conclusion is clearly conveyed. Selects most appropriate medium for conveying information and structures written and oral communication to ensure clarity.

***Listens, Understands and adapts to audience***

Seeks to understand the audience and tailors communication style and message accordingly. Listens carefully to others and checks to ensure their views have been understood. Anticipates reactions and is prepared to respond. Checks own understanding of others' comments and does not allow misunderstandings to linger.

***Negotiates persuasively***

Approaches negotiations with a strong grasp of the key issues. Presents a convincing and balanced rationale. Anticipates the position of the other party, and is aware of the extent of potential for compromise. Acknowledges and addresses disagreements to facilitate mutually beneficial solutions. Encourages the support of relevant stakeholders. Focuses on the desired objectives and ensures negotiations remain on track.

**5. CRC for Spatial Information**

The CRCSI was first established in Round 8 of the CRC Programme in July 2003 and is funded through to June 2018. CRCSI activities are conducted in principal geographic nodes at our partner institutions; Melbourne; Perth; Sydney, Armidale; Brisbane; Canberra; and Christchurch and Wellington (NZ). Other nodes and partners may be added in the future. Existing nodes may be expanded. Melbourne is the corporate base for the CRCSI at 204 Lygon Street, Carlton with administrative offices in Brisbane, Sydney, Canberra, Perth and Wellington.

The research programs are led by prominent researchers with established international reputations, who are already involved with international scientists in collaborative projects. The scientists have impressive records of research performance and demonstrated capability to collaborate, cooperate and manage complex, industry-focused research projects. Researchers from Australia's leading centres of academic excellence in spatial information bring a range of multi-disciplinary skills to the CRCSI.

The Cooperative Research Centre for Spatial Information is an unincorporated entity that operates through its wholly-owned entity Spatial Information Systems Research Ltd.

Geoscience Australia is Australia's pre-eminent public sector geoscience organisation and the nation's trusted advisor on the geology and geography of Australia. Geoscience Australia applies science and technology to describe and understand the Earth for the benefit of Australia. One of its roles is to provide

reliable national fundamental information about the geographies of the nation. It does this by employing a number of strategies:

- Build and implement Foundation Spatial Data Framework to deliver reliable representations of the geography of Australia.
- Champion the use of location information for government and community decision making.
- Deliver national geodetic capability.
- Apply high performance computing to transform geoscience research and facilitate innovation.

## **6. To Apply**

Further information on the CRCSI can be found at [www.crcsi.com.au](http://www.crcsi.com.au).

Please email a cover letter addressing each of the selection criteria and a full Curriculum Vitae to:

Dr Graeme Kernich

Deputy CEO

[gkernich@crcsi.com.au](mailto:gkernich@crcsi.com.au)

Closing date for applications: Friday 27 January 2017