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ASIS is Australia's overseas secret intelligence collection agency. Its mission is to protect and promote Australia's vital interests through the provision of intelligence services as directed by the Australian Government. Its work can involve collecting intelligence relating to national security, international relations and economic issues. It also contributes to Australia's coordinated national efforts against terrorism, proliferation of weapons of mass destruction, and trans-national issues such as people smuggling.

ASIS employs people in a wide range of roles, including technologists. These roles require dynamic team players who enjoy working with stakeholders, team members and individually on projects. ASIS is looking for people who will be able to meet tight deadlines and work to support ASIS priorities. Sucessful candidates will have excellent coordination and administration skills, excellent verbal and written communication skills; and, strong stakeholder engagement and influencing skills. Relevant tertiary qualifications and demonstrable experience will be highly regarded.

ASIS values workplace diversity and is committed to providing a supportive, inclusive and respectful work environment. We encourage applications from Aboriginal and Torres Strait Islander People, women, people with disabilities, people that identify as LGBTIQ+ and people from culturally and linguistically diverse backgrounds.

We offer a competitive salary package including 22 days annual leave, shutdown between Christmas and New Years Day, 15.4% employer superannuation contribution, access to flex time (up to Level 6 only) and generous paid parental leave. Full and part time positions as well as flexible work hours can be negotiated.

All positions are office-based and located in Canberra or Adelaide. **This role requires the successful applicant to obtain and maintain a Security Clearance.**

Role: Data Scientist (Level 4 – EL1)

Are you keen to use your machine learning and data analytics skills to turn data into knowledge and operational outcomes? Are you passionate about undertaking applied research and developing innovative solutions to allow data to tell its story? ASIS offers an opportunity to achieve these goals in a unique environment. Data Scientists in ASIS work directly with client areas to make the best use of ASIS's unique data assets and achieve operational impact. They train and deploy models to enrich data and support analysts to find the right information as quickly as possible. They are highly motivated and work collaboratively with other technical specialists evolve and improve existing data exploitation systems. If this sounds like an environment you could thrive in, then apply for one of these positions.

ASIS leverages the wide world of open source software and supplements it with our own development to deliver the bespoke tools required for the ASIS mission. We work in whichever programming language best fits the task at hand; frequently one of Java, Python, R, Scala/Spark or C++. Our toolset includes PyTorch, Tensorflow, Apache Spark, Apache Accumulo, Apache

Hadoop, and Git. We exploit structured and unstructured data, including geospatial and multilingual data sets of varying quality. Ideal candidates will be innovative, self-motivated and keen to use these toolsets to craft new solutions that are simply not found in any other organisation.

We have positions open at the Level 4, Level 5, Level 6 and EL1 levels. Candidates at Level 4 are entry level positions and will be working under the supervision of a senior Data Scientist. A Level 5 candidate would be expected to operate with some autonomy working under light supervision. A Level 6 candidate would be expected to have more experience and operate with limited supervision within a core group of data science practitioners. A candidate at the EL1 level would be expected to have substantial experience, operate entirely independently and possibly fulfil a leadership role. An EL1 candidate may also have some specific, deep technical expertise.

We would welcome applications from candidates in their final or penultimate years of study.

Key Responsibilities and Tasks

As a Data Scientist in ASIS you will work with customers to deliver mission impact from available data. You will be expected to:

- Support customers to realise value from data through data wrangling, complex analysis and machine learning
- Engage with customers to identify potential operational benefits from the application of data science, including identifying relevant data and analytic opportunities
- Identify and implement relevant analytic tools and techniques
- Act as a leader to foster a data driven culture across the organisation and support business areas to achieve operational outcomes

Core Skills / Education, qualification and experience requirements

One or more of the following:

- ASIS is looking for data/maths/stats savvy professionals who apply their expertise to solve real-world problems
- Extensive experience in using suitable programming languages (such as R, Spark/Scala, C++, Python) to manipulate, model, analyse and present data to meet client requirements
- Experience (commensurate to the level) in data analysis, machine learning (model training and fine-tuning) and data wrangling;
- Strong communications skills and a history of successful client engagements

Experience in the following would be beneficial, but not essential:

- Formal training / education in data science, computer science, mathematics, statistics, physics, engineering or similar quantitative discipline
- Understanding of the trade-offs between different tools, approaches and algorithms, and a willingness to (learn new tools/algorithms as necessary, and) apply a "best fit" to achieve outcomes in a timely manner
- Experience in large graph or network-based analytics
- Experience working with Hadoop based systems to achieve analytic outcomes
- Demonstrated experience as a member of a multi-disciplinary team(s)

Selection Criteria

Candidates are not required to provide a separate written response to the ILS capabilities (below), however, candidates are encouraged to consider the capabilities in preparing their application, as each candidate will be assessed on their ability to demonstrate behaviours aligned to the capabilities for the position.

For more information on the ILS, tips on applying for jobs in the Public Service, go to the APSC website found at www.apsc.gov.au.

Supports Strategic Direction

- Supports shared purpose and direction;
- Thinks strategically;
- Harnesses information and opportunities; and
- Shows judgment, intelligence and common sense.

Achieves Results

- Identifies and uses resources wisely;
- Applies and builds professional expertise;
- Responds positively to change; and
- Takes responsibility for managing work projects to achieve results.

Supports Productive Working Relationships

- Nurtures internal and external relationships;
- Listens to, understands and recognises the needs of others;
- Values individual differences and diversity; and
- Shares learning and supports other.

Displays Personal Drive and Integrity

- Demonstrates public service professionalism and probity;
- Engages with risk and shows personal courage;
- Commits to action;
- Promotes and adopts a positive and balanced approach to work; and
- Demonstrates self-awareness and a commitment to personal development.

Communicates with Influence

- Communicates clearly;
- Listens, understands and adapts to audience; and
- Negotiates confidently.

Job Specific Requirements

- Demonstrated experience and education relevant to the role.

HOW TO APPLY

Applicants will need to apply **ONLINE** via our website.

Applicants will required to attach a resume and submit a maximum 800 word pitch outlining their relevant experience, skills and knowledge to perform the duties of the role.

You will be asked what level you are applying for.

Applicants are encouraged to consider the capabilities when preparing their application, as this will form the basis of selection assessment. For more information and tips on applying for jobs in the Public Service, search 'Joining the APS' at www.apsc.gov.au.

After application submission, you may receive an SMS requesting you to complete online testing. Please ensure you complete this as your application will not be progressed otherwise.

APPLICATIONS CLOSE: Refer to date on website

ELIGIBILITY

Candidates must be Australian citizens.

The successful candidate will be required to obtain and maintain a security clearance.

REASONABLE ADJUSTMENTS

All requests for reasonable adjustments will be considered and managed in consultation with you. We will continue to ask you if you require reasonable adjustments at each stage of the process. If you are successful in gaining employment, reasonable adjustments can also be made available to you in performing your role.

WHAT HAPPENS NEXT?

You may receive a SMS requesting you to complete online testing. Please ensure you complete this as your application will not be progressed otherwise.

Please do not tell anyone about your application with our organisation at this stage of the process as doing so may harm your suitability for employment with us.

A merit list will be established for candidates who are suitable and will remain valid for a period of 18 months.

We thank you for the time and effort you have put into your application; however, we are unfortunately unable to provide feedback to unsuccessful candidates.