Data Scientist

Curtin University

POSITION NUMBER	3563619	SCHOOL/AREA	Curtin Institute for Computation (CIC)
CLASSIFICATION	G08	FACULTY	Science & Engineering
LINE MANAGER	Director, CIC	POSITION NUMBER	3534689

PURPOSE OF POSITION

The Data Scientist is a key member of the Innovation Central Perth (ICP). The role involves engaging with external parties, working with them to establish projects suitable for the ICP (*i.e.* proof of concept projects) and then working on the technical aspects of these projects in the data analytics and operations research areas.

KEY RESPONSIBILITIES AND ACCOUNTABILITIES

- Work with organisations (SMEs, Industry, Government etc) wishing to engage with the ICP to develop suitable projects that meet the requirements of both the ICP and the organization.
- Development of problem specific analytics/optimisation algorithms required to support specified ICP proof of concept projects.
- Work directly with ICP staff and external organisations to design and build proof of concept software and visualisations for specified projects.
- Collaborate with the computational specialists within the Curtin Institute for Computation and the data scientists within Curtin Teaching and Learning to ensure that the analytics solutions developed have the widest applicability.
- Provide plain English summaries and updates to the ICP partners of the projects undertaken in the ICP.
- Contribute to research activities such as assisting in grant development, writing publications etc.
- As a member of the University community, demonstrate the highest possible standards of professional and personal conduct, modelling the University's Values and Signature Behaviours.
- Undertake other activities which the incumbent might reasonably be expected to do, and which are consistent with the accountabilities and responsibilities as listed above.

KEY PEOPLE INTERACTIONS

- ICP staff
- Cisco staff
- Woodside Energy Ltd staff
- Data61 staff
- Researchers from the Curtin Institute for Computation
- Staff from organisations that get involved in ICP projects

POSITION/ORGANISATIONAL UNIT DIMENSIONS

ICP is a state-of-the-art collaborative community developing ingenious solutions for cloud, analytics and Internet of Things (IoT) network platforms. By creating an environment that fosters collaboration, small-to-medium enterprises, industry experts and researchers can develop original and inventive solutions through rapid prototyping and proofs-of-concept to solve real business problems. ICP is a collaboration led by Cisco with partners Curtin, Data61 and Woodside.

For more information see: https://icentralau.com.au/Perth/

CRITERIA

Qualifications	1. A tertiary qualification in a relevant quantitative discipline (e.g. Computer Science, Statistics, Mathematics, Operations Research) with extensive relevant experience;
Knowledge, Experience and Skills	2. Proficiency in data science, statistics, mathematical modelling, and/or optimisation techniques;
	3. Proficiency in at least one analytics scripting language (such as R, Python, MATLAB);
	4. Demonstrated analytical and problem solving skills with the ability to understand and effectively tackle challenging problems;
	5. Demonstrated ability to work effectively as part of a team as well as autonomously;
	6. Demonstrated ability to articulate complex, technical concepts to non-technical clients and the ability to consult and liaise with personnel across all levels and disciplines.
	7. Demonstrated understanding of developments in software systems and algorithms where they apply to data science and operations research;
	8. Demonstrated well developed written communication skills with the ability to construct clear and concise reports and correspondence.
Desirable	1. A doctoral qualification in a quantitative discipline such as computer science, mathematics, statistics or operations research.
	2. Experience developing software in an industry, research or academic environment;
	3. Experience in writing grant applications and/or publications;
	4. Experience working with Agile development methodologies.

WORK REQUIREMENTS

- Ability to work outside of normal office hours when required.

CAPABILITIES & BEHAVIOURS (Curtin Leadership Framework)

It is a requirement that staff in leadership roles exhibit and model capabilities and behaviours consistent with the Curtin Leadership Framework. These include:

Managing Self	Leading Others	Leading Innovation & Change	Leading Strategically	Managing Operations
Understanding self & others	Building & leading high performance teams	Thinking creatively & fostering innovation	Thinking strategically & having vision	Managing Curtin resources
Modelling Curtin Values	Developing staff capability	Managing change	Setting goals & objectives	Continuous quality improvement
Managing time and wellbeing	Facilitating participative decision making	Influencing and inspiring others	Thinking analytically to solve problems	Managing complex projects
Building working relationships	Dealing with conflict			
Effective Communication				

UNIVERSITY VALUES

All staff must commit to and uphold Curtin's Values which are:
- Integrity – to act ethically, honestly and with fairness
- Respect – to listen, value and acknowledge
- Courage – to lead, take responsibility and question
- Excellence – to strive for excellence and distinction
- Impact – to empower, enable and inspire

For more information please visit: http://www2.curtin.edu.au/strengthening-our-culture/values/index.cfm

COMPLIANCY & LEGISLATIVE REQUIREMENTS

Occupational Safety and Health

All supervising staff are required to undertake effective health and safety measures to ensure compliance with the Occupational Safety and Health Act 1984 and related legislative requirements.

All staff must comply with requirements of the Occupational Safety and Health Act and all reasonable directives given in relation to health and safety at work, to ensure compliance with University and Legislative health and safety requirements.

Ethics Equity and Social Justice

All staff are responsible for informing themselves of their obligations and responsibilities in relation to Ethics, Equity and Social Justice. In particular, all staff must demonstrate appropriate and professional workplace behaviours in accordance with the University's Values and Code of Conduct.

Staff must familiarise themselves and comply with all other University policies and procedures and legislation relevant to the position, including:

- Current copyright and defamation legislation
- Current privacy and compliance legislation

ENDORSEMENT

I certify that the information contained in this document is a true and accurate depiction of the requirements of the position

Manager		Human Resources Registered	
Manager Signature		Date Registered	
Date		Document Last Updated	March 2018