



# Position Description

## Lecturer in Computing (Data Science)

School of Computing, Mathematics and Engineering

Faculty of Business, Justice and Behavioural Sciences

<b>Classification</b>	Level B
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<b>Delegation band</b>	<a href="#">Delegations and Authorisations Policy (see Section 3)</a>
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<b>Workplace agreement</b>	<a href="#">Charles Sturt University Enterprise Agreement</a>
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<b>Date last reviewed</b>	October 2022
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# About Charles Sturt University

## Purpose

The Wiradjuri phrase *yindyamarra winhanganha* means the wisdom of respectfully knowing how to live well in a world worth living in. This phrase represents who we are at Charles Sturt University – our ethos. It comes from traditional Indigenous Australian knowledge, but it also speaks to the vision of the university – to develop and spread wisdom to make the world a better place.

## Vision

Charles Sturt University is set to undergo a decade of great reform that will see the university characterised by these key elements:

- An uncompromising drive towards excellence in every aspect of its operations
- A far-reaching strategic re-positioning of teaching, learning, research, and innovation
- A cementing of our position as Australia's pre-eminent rural and regional university

The overarching aim is to consolidate our institution so that it is demonstrably more resilient and sustainable by the end of the decade.

## Goals

To deliver on our purpose and vision, the university has three key goals:

1. Maintain the university's position in the top five Australian universities for graduate outcomes based on employment and salary
2. Embed a culture of excellence across all aspects of the university's operations
3. Exponential growth in research, development, and innovation income in our chosen areas, delivering high impact outcomes for regional Australia

## Our values

Charles Sturt has a proud history and is fortunate to have an outstanding group of diverse, passionate, and engaged people working with us. Our values of insightful, inclusive, impactful, and inspiring guide our behaviours and ways of working to help us achieve our ethos of creating a world worth living in.

## Performance measures

In addition to the principal responsibilities all staff are required to contribute to the success of the university strategy including meeting university's eight key performance indicators:

<b>Our Students</b>	<ul style="list-style-type: none"><li>• Commencing progress rate</li><li>• Student experience</li></ul>
<b>Our Research</b>	<ul style="list-style-type: none"><li>• Research income</li><li>• Research quality and impact</li></ul>
<b>Our People</b>	<ul style="list-style-type: none"><li>• Engagement</li><li>• All injury frequency rate</li></ul>
<b>Our Social Responsibility</b>	<ul style="list-style-type: none"><li>• Underlying operating result</li><li>• Community and partner sentiment</li></ul>

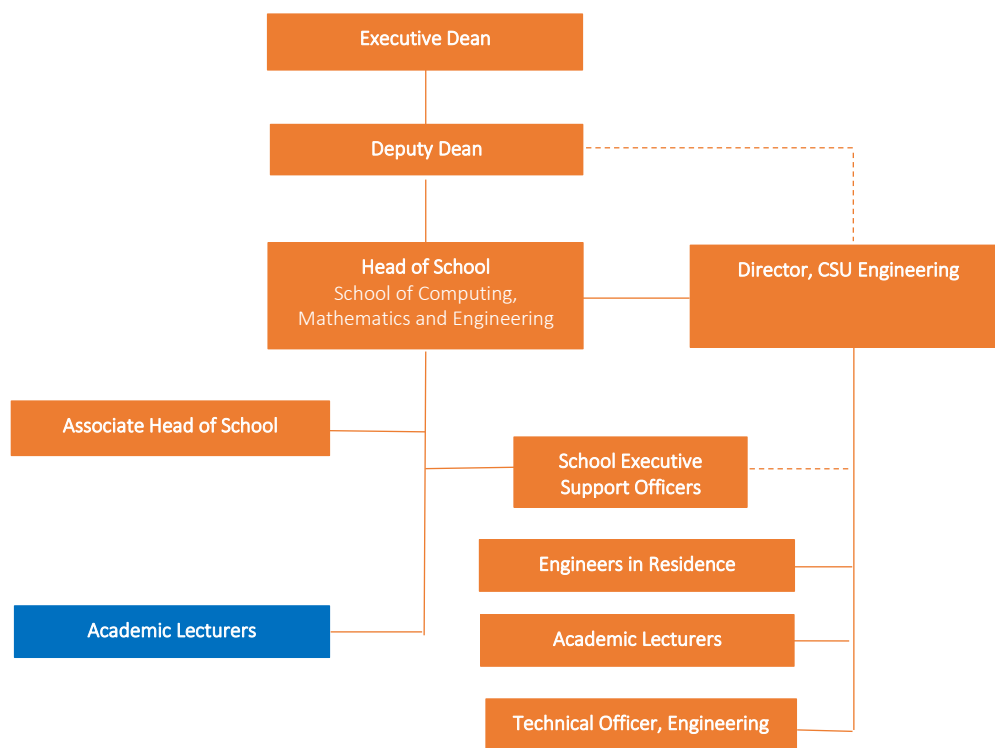


## Faculty of Business, Justice and Behavioural Sciences

Charles Sturt enjoys a global reputation as a leading provider of undergraduate, postgraduate and specialist professional programs. In the Faculty of Business, Justice and Behavioural Sciences, our specialties are in psychology, policing, law, criminology, security, emergency management, customs and excise studies, border management, accounting, engineering, human resources, marketing, business management, computing, and information technology. We possess excellent relationships with our industry, government, and community partners. Our research is high impact, practical and at world standard.

The School of Computing, Mathematics and Engineering has a diverse team who work together in the pursuit of excellence in teaching, research, and community engagement. The school offers courses in information technology, computer science, cloud computing, cyber security, network administration, data science, artificial intelligence, mathematics, and engineering, in both on-campus and online modes. Since 2008, the school has been the largest provider of domestic postgraduate IT education. The focus of research in the school is on applied research in Data Mining, e-Health, Image Processing, Cyber Security, Artificial Intelligence, Applied Mathematics and Statistics which benefit the communities in our region. Our research staff have obtained nationally competitive grants from the Australian Research Council (ARC) as well as industry and government agencies such as a recent Cooperative Research Centre (CRC) in cyber security area.

## Organisational chart





## Reporting relationship

**This position reports to:** Head of School, School of Computing, Mathematics and Engineering

**This position supervises:** Nil

## Key working relationships

- Academic staff - School of Computing, Mathematics and Engineering
- School Executive Support Officers
- Course Director
- Students
- Faculty and School Staff

## Position overview

The role will teach computing subjects to on-campus and online students (on and offshore) at undergraduate and postgraduate levels. You will supervise honours and postgraduate research students and will undertake academic administrative duties that may include moderation of partner programs. Active involvement in professional engagement and cross-disciplinary initiatives is encouraged. You will be expected to actively contribute to the leadership of teaching and learning, scholarship and professional engagement within the school. You are also expected to demonstrate excellence in both student engagement and community relations, as appropriate to the position.



## Principal responsibilities

The position will contribute to enhancement of the work already occurring in the school:

- Teach subjects in the computing programs and other relevant programs as required at undergraduate and postgraduate levels.
- Apply Charles Sturt learning and teaching methodologies, processes, technologies and tools to deliver high quality student-centred learning opportunities in the relevant discipline and as required to meet the teaching needs of the University.
- Achieve excellence in teaching in a range of delivery modes, which may include face to face and online teaching and assessment.
- Teach and supervise at undergraduate, honours and postgraduate levels including Higher Degree Research (HDR) students.
- Provide discipline specific input to course and subject design.
- Build strong professional relationships with students and provide timely and appropriate consultation and feedback.
- Actively contribute to high performing multi disciplinary teams with an outcome focus and the development of a respectful, trusting and collaborative working environment.
- Actively contribute to governance, marketing, promotion and administrative activities to facilitate the work of the school and wider University.
- Proactively develop and foster relationships with a range of stakeholders including community, government departments, and professional bodies.
- Maintain a sound and current knowledge and understanding of the relevant discipline through industry engagement and/or scholarly activities or similar.
- Effectively liaise with staff across the University and with industry partners to ensure high quality subject delivery.
- Contribute to administrative tasks and processes that enable the academic team to manage the work of the school, including participating in School decision-making, and serving on School/Faculty committees.
- Support and liaise with the relevant course director(s) for any course and student related matters.
- Other duties appropriate to the classification as required.



## Role-specific capabilities

This section comprises capabilities from the Charles Sturt [Capability Framework](#) identified as essential or critical for success in this role.

<b>Innovative</b>	With creativity at our core, be open to new ideas and seek to find better ways.
<b>Live our values</b>	Uphold the Charles Sturt University values daily in our own behaviours and interactions with others.
<b>Apply expertise and technology</b>	Apply, develop and share specialist and detailed technical expertise, understanding other organisational disciplines.
<b>Present and communicate information</b>	Speak clearly and fluently, express opinions, make presentations, respond to an audience, show credibility.
<b>Write and report</b>	Write clearly, succinctly and correctly, convince through writing, avoid jargon, structure information.
<b>Analyse</b>	Analyse information, probe for clarity, produce solutions, make judgements, think systemically.

## Physical capabilities

The incumbent may be required to perform the following.

- Work in other environments beyond your base campus, such as other campuses.
- On occasion drive a vehicle distance up to 500km per day within the terms of the university's [Driver Safety Guidelines](#)



## Selection criteria

Applicants are expected to address the selection criteria when applying for this position.

### Essential

- A. A doctoral qualification relevant to the computing discipline, or equivalent accreditation and standing.
- B. A record of research or professional activity relevant to the computing discipline which demonstrate a capacity to make an autonomous contribution.
- C. Demonstrated experience teaching international cohorts including the ability to research, write and deliver computing subjects in particular; in data science, data analytics, and data mining areas at undergraduate and post-graduate levels, which includes the capacity to incorporate new technologies and new approaches to teaching and learning.
- D. Sound knowledge and understanding of the discipline gained through industry experience and/or scholarly activities.
- E. Experience in teaching and management of capstone IT project subjects at undergraduate and/or postgraduate levels.
- F. Demonstrated high level written and oral communication and interpersonal skills including negotiating, presenting, active listening and the giving and receiving of constructive feedback.
- G. Demonstrated capability in research higher degree supervision.
- H. Demonstrated high level analytical, critical thinking and problem-solving skills.
- I. Demonstrated ability to build strong partnerships, networks and relationships to achieve professional and team objectives.
- J. Demonstrated capacity to work both collaboratively and independently in a large complex academic setting with an outcome focus.

### Desirable

- K. Experience in contemporary approaches to curriculum design and pedagogy.
- L. Teaching experience/expertise in cyber security and/or software development.



