



THE UNIVERSITY OF
**WESTERN
AUSTRALIA**

Appointment of

Professor of Statistics and Data Science

Information for Candidates



Thank you for
your interest
in the position
of Professor of
Statistics and
Data Science at
The University of
Western Australia
(UWA).

Welcome

Thank you for your interest in the position of Professor of Statistics and Data Science .

We offer you an exciting opportunity to work with an institution which has developed a strong reputation for excellence in teaching, learning and research and aspires to be ranked in the top 50 world universities by 2050.

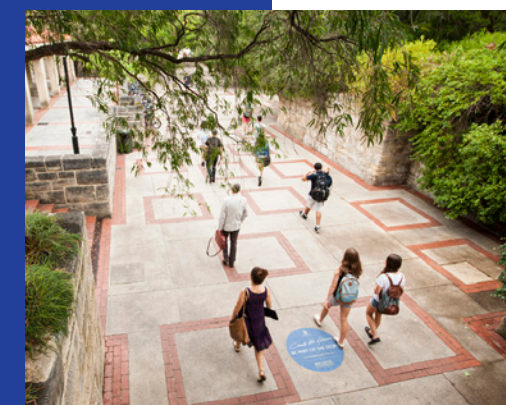
At UWA we want you to challenge convention, embrace the opportunities that are open to you and inspire you, and subsequently lead you to inspire others. You are not only joining a World Top 100 university, you will be part of a community of people committed to the world's advancement.

As the only Western Australian university in the Group of Eight, a coalition of leading Australian universities, you will have access to an exceptional support network committed to creating change.

Your future UWA colleagues are academic leaders in the broadest sense and have an established international reputation for outstanding teaching and research. We look forward to hearing from like-minded candidates.

D Freshwater

**Professor Dawn Freshwater
Vice-Chancellor**



The University of Western Australia

When you join the UWA community, you will find dynamic and forward-thinking colleagues who, like you, are determined to challenge convention and drive innovation.

The University is regarded as one of Australia's top research institutions. Its strong research culture sees it attract high levels of competitive research funding. We operate more than 130 research and training centres and receive roughly 80 per cent of all research funding to Western Australian universities annually.

We celebrate strong industry partnerships and are placed equal first in Australia on key measures, including research intensity and research grants, according to the Good Universities Guide 2016. QS World Rankings has given us its highest rating of 5 Stars+ and we rank in the top one per cent of universities worldwide.

At UWA, we help people make the most of the possibilities presented. The University is a community of people with a desire to make the most of their potential and contribute to the world's advancement. Join us and pursue your ambitions.

uwa.edu.au



Mission

To provide world class education, research and community engagement for the advancement of prosperity and welfare of our communities.

Vision

To become recognised as one of the world's top 50 global universities by 2050.

University governance and management

The University is governed by the Senate, comprising 21 members from a range of backgrounds: community, staff, students and graduates.

Chaired by the Chancellor, the Hon. Robert French AC, the key roles of the Senate are:

- broad overview of strategic directions in the University;
- overseeing corporate governance;
- overseeing management of financial, human and physical resources;
- performance monitoring;
- legislative responsibility; and
- support, guidance and performance monitoring of the Vice-Chancellor.

Key stats

Student enrolments 2017	23,106
Total staff (FTE) 2017	3,550
Research publications 2016	6,846



Key institutional networks

Group of Eight

The Group of Eight is a coalition of leading Australian universities, intensive in research and comprehensive in general and professional education.

go8.edu.au

Matariki Network of Universities

This international group of seven universities across seven nations focuses on strong links between research and undergraduate teaching, promoting international best practice in research and education.

matarikinetwork.com

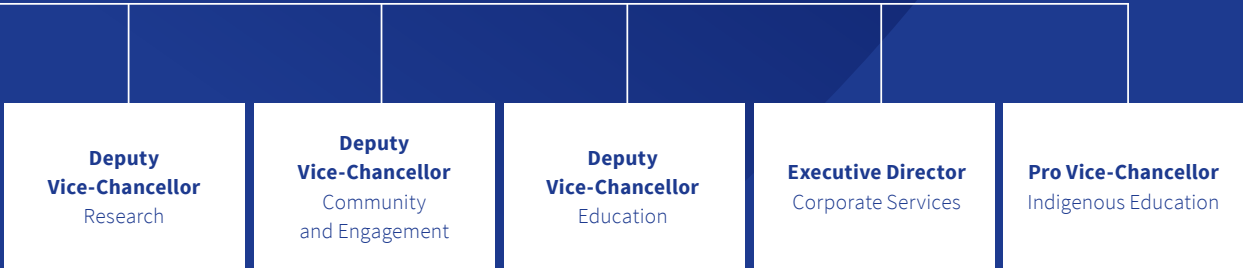
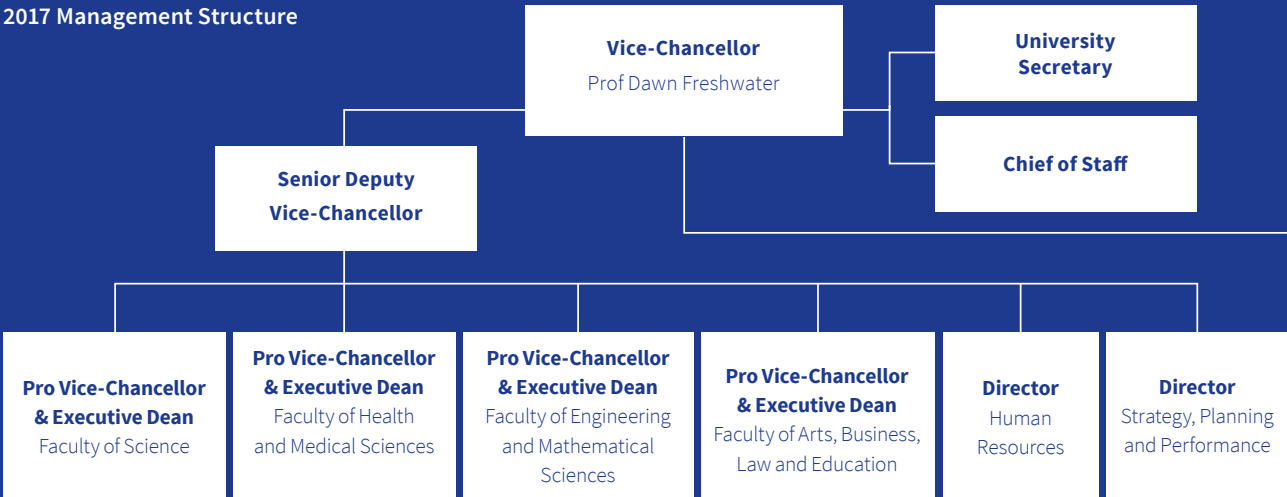
Worldwide Universities Network

The major issues facing our planet are of a magnitude that no single institution or organisation can address on its own. WUN collaborations aim to involve a number of world- leading academic partners in addressing global challenges, including climate change, public health, global higher education and cultural identity.

wun.ac.uk



2017 Management Structure



Western Australia and Perth

Western Australia is the second largest state in the world, and our sunny climate has shaped some of the world's most biodiverse landscapes.

You will benefit from a Mediterranean climate in the south, desert in the east and tropical conditions in the north. Western Australia really is a year round destination.

Perth not only offers you natural beauty but an eclectic mix of restaurants, shopping and cultural experiences. It is also home to magnificent beaches, beautiful wineries and one of the world's largest inner city parks – Kings Park.

The University of Western Australia is also the founder of Perth's cultural highlight, the Perth Festival. The festival is one of the most exciting arts festivals in the world and is the longest running international arts festival in Australia.

uwa.edu.au/perthfestival

Role, key responsibilities and selection criteria

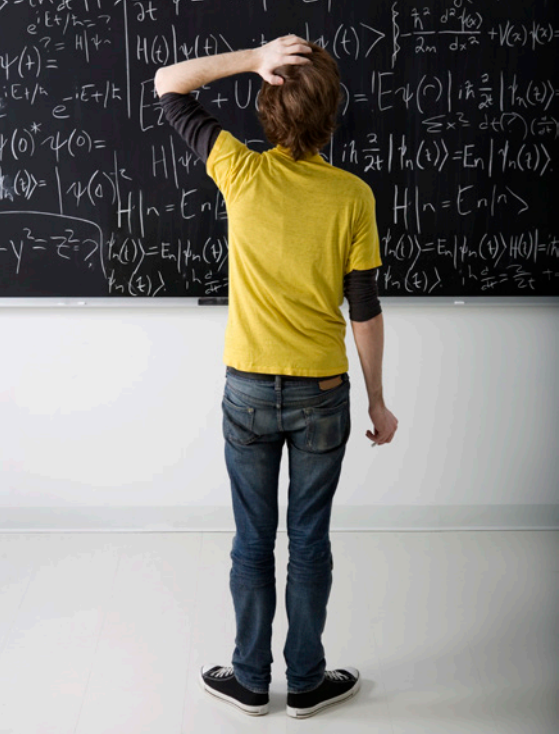
Role

The Professor of Statistics and Data Science will provide key academic leadership, especially in the areas of Statistics and Data Science, and will work in cooperation with the Department of Computer Science and Software Engineering. This will require in-depth knowledge and extensive expertise in statistics, a clear vision of how Statistics contributes to Data Science, and an ability to lead the research and teaching of expert colleagues working in these areas. The ability to work cooperatively with colleagues in other disciplines is also essential.

Working with an established team of dedicated and innovative teaching and research staff, you will be a leader in innovation and change in their discipline, providing a visionary perspective.

Operating in a region abundant with potential industry partners, you will actively seek to establish and maintain strategic partnerships with external stakeholders, prioritising opportunities that will benefit and showcase UWA's research, teaching and learning, and engagement capabilities.





The Faculty of Engineering and Mathematical Sciences

The Faculty of Engineering and Mathematical Sciences encompasses three Schools – the School of Physics, Mathematics and Computing, the School of Engineering and the Oceans Graduate School. Past graduates include Rhodes Scholars, Fulbright Scholars, Eureka Prize winners, CEOs and seven of the most influential engineers in Engineering Australia's Top 100 list. The Faculty is home to a former Scientist of the Year and award-winning inventors, and is part of the state of the art Indian Ocean Marine Research Centre. The Faculty prides itself on its track-record for producing graduates who not only perform well in their chosen profession, but are equipped with the skills and social capital they need to be the very best.

The Faculty has an international reputation for excellence in research and its research teams benefit from global partnerships with industry, attracting research income of more than \$27 million a year – well above the national average. With cross-disciplinary research groups, the Faculty offers a creative and innovative research environment and is poised to respond to a rapidly changing world and develop technologies that fulfil the demands of the 21st century. Equally important is educating the next generation of graduates for current and emerging industries. The Faculty seeks to embrace the latest forms of effective educational delivery and produce graduates with skill sets that promote flexibility and recognise the need for life-long learning.

The Department of Mathematics and Statistics

The Department of Mathematics and Statistics has an established and dedicated team of teaching and research staff who engage in a multidisciplinary approach to provide pathways to incorporate mathematics and statistics into undergraduate and postgraduate studies and research. The department provides a focus for mathematical research and research training while also working closely with other disciplines in the Faculty and University. Our program of teaching and research covers the broad fields of applied mathematics, pure mathematics and statistics.

UWA mathematicians actively interact with Australian and overseas industries in a broad range of areas including mineral detection and processing, oil extraction, geopropecting, medical technology, operations research and optimisation contributing towards the Faculty's research focus of Engineering for Remote Operations (ERO). Across the University, UWA mathematicians have opportunities to collaborate with a variety of groups including the Complex Data Modelling research group and the International Centre for Radio Astronomy Research while the Centre for Applied Statistics operating within the Department of Mathematics and Statistics provides expert training and consultancy services to the University, Industry and government.





Key responsibilities

Leadership

- Provide strong Academic leadership within the discipline, fostering collaboration and interactions with the Department of Computer Science and Software Engineering.
- Lead change within the discipline, promoting excellence and continuous improvement in academic performance.
- Provide mentoring for staff and students as well as expert support for industry partners in teaching and research endeavours.

Teaching and Research

- Provide significant contributions to the development and delivery of world-class innovative teaching in the degree programmes of the Department and University at both undergraduate and postgraduate levels. More specifically, in conjunction with the Department of Computer Science and Software Engineering, contribute to the development and delivery of the Masters of Data Science program.
- Develop and maintain a strong, internationally recognized research programme synergistic with the existing research groups within the School, the Faculty and the University, that produces high quality research outcomes.
- Supervise research students at both the undergraduate and postgraduate levels as well as post-doctoral research fellows. Attract and recruit quality postgraduate students and postdoctoral research fellows.

Engagement

- Actively seek research funding and business development opportunities with local and federal governments, industry and international partners to drive research and collaboration and to enhance the reputation of UWA as a leading University.
- Actively represent the University and the Department domestically and internationally in scholarly events and through publishing in high-quality academic journals.
- Contribute to the broader Department, School, Faculty and University in its operation, providing service and leadership to the scholarly community and broader public as required.

Conditions of employment

- Tenurable subject to satisfactory performance
- Employer contribution to superannuation of 17%
- Annual leave of 20 working days per annum
- Long Service Leave
- Visa sponsorship and relocation assistance for international appointees

Selection criteria

Qualifications

- A PhD in Statistics or related field.
- A clear vision for Statistics and Data Science.
- A strong capacity for leadership.

Applicants should demonstrate evidence of significant achievement in the following areas:

Leadership

- Proven ability to provide academic leadership and promote excellence in teaching and research within a discipline.
- Demonstrated highly developed capabilities to lead change and shape strategic thinking and build effective relationships and work collaboratively.

Teaching and Research

- Demonstrated outstanding ability and willingness to develop, co-ordinate and teach Statistics and Data Science units at undergraduate and postgraduate levels. Evidence of successful teaching is essential.
- Demonstrated ability to produce high quality research outcomes; and willingness to undertake integrated research both within and across groups in academic and/or industry settings, and an ability to build partnerships within the University and externally with a range of stakeholders.
- A strong research profile, demonstrated through consistent publications in high quality academic journals both domestically and internationally. Publications in both Statistics and Data Science will be highly regarded.
- A collegiate attitude, value teamwork and be able to work with a diverse group of people.

Engagement

- Proven significant ability to engage with industry and to increase School and University business development capacity.
- Demonstrated highly developed capability to increase School and University capacity to recruit higher degree research students, domestic as well as international.



Applications

Thank you for your interest in this position. If you wish to proceed, the following information will assist you with your application.

Your application must include the following:

- A curriculum vitae;
- A statement that clearly addresses the selection criteria;
- A list of publications;
- The names and email addresses of three referees who can be contacted for a confidential report.

Please note that your permission will be sought prior to referees being contacted. The University of Western Australia provides visa sponsorship for international appointees. UWA is a National Employer of Choice for Women and a member of Athena SWAN.

Lodging your application and closing date

Applications must be submitted online at: jobs.uwa.edu.au

Closing date for applications is Monday, 23 April 2018

Enquiries and further information

If you wish to discuss the position in confidence, please contact:

Associate Professor Mark Reynolds
Head of School
School of Physics, Mathematics and Computing
Telephone: **+61 8 6488 2279**
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