A world-class career
HEAD OF DEPARTMENT, MATHEMATICS AND STATISTICS
Dear colleague

Thank you for your interest in this position. Scientific research and discovery have been an integral part of the Science and Engineering story at Macquarie University since our beginnings. Our researchers have participated in the world’s first-ever attempt to synthesise complex life, turned wi-fi into a reality, discovered dancing dwarf galaxies, made major advances in category theory, and set the groundwork for the development of blue LED light – the future key ingredients in everything from your smartphone to the lights in your home.

Scientific discovery – be it during our studies or working in industry or at a university – comes from a deep understanding of the fundamentals as well as from being creative. We believe that creativity, hard work and collaboration, as demonstrated by all our staff, are key to success in science and engineering at Macquarie.

We are the faculty for those who are not afraid to tackle the big issues. In a world more dependent on science and engineering than ever before, we stand at the forefront of change and innovation. The latest Excellence in Research for Australia ratings show that our research excellence is going from strength to strength and is above or well above world standard.

Our research strengths – from biological, earth and environmental sciences, physics, mathematics, statistics, computing and engineering to optical physics, environmental management and ecology – are addressing some of the most pressing global issues.

This is an exciting time to join the Department of Mathematics and Statistics, one of Australia’s leading mathematical sciences departments. The new Head of Department will play the central role in defining the department’s strategy, bringing together the world’s best researchers and strengthening our reputation as a destination of choice for high-ability passionate students.

We offer you the opportunity to bring your outstanding academic leadership skills to enable the department and its staff to realise their full potential and deliver excellence across the full portfolio of academic activity.

We look forward to welcoming you.

Professor Bernard Mans
INTERIM EXECUTIVE DEAN
FACULTY OF SCIENCE AND ENGINEERING
About the Department

Through the Department of Mathematics and Statistics, Macquarie University has a long and proud tradition of research in mathematical sciences. Members of the Department have held many prestigious research fellowships and have contributed significantly to the vitality of mathematical sciences in Australia. We have a strong community of higher degree research students, with many students coming from leading international schools to study with us. We have state-of-the art computational facilities and a rich and broad seminar program, attracting many leading national and international mathematicians and statisticians.

Our research is recognised as above world standard in mathematical sciences, well above world standard in Pure Mathematics and world standard in Applied Mathematics. Our researchers have won multiple awards, most recently the Australian Mathematical Society 2017 Medal and the 2017 ABC Radio National/UNSW Top 5 Under 40 science communicator award.

PURPOSE
The Department has undergone recent renewal with the merging of the disciplines of Mathematics and Statistics into one Department. The focus is now on building capacity and developing the next generation of teachers and researchers.

Our vision is to be recognised as one of the leading mathematics and statistics departments in Australia for our outstanding teaching and research excellence in mathematical sciences.

Our graduates are recognised for the depth and breadth of their mathematical and statistical knowledge, and for their ability to adapt to future challenges. We provide leadership in engagement with the education sector and develop strong and lasting relationships with industry partners. We provide the highest-quality undergraduate and postgraduate training in mathematical and statistical sciences, and to conduct world-class research in Applied Mathematics, Pure Mathematics and Statistics.

RESEARCH CENTRE
The Department is home to the Centre of Australian Category Theory (CoACT). CoACT is one of the world's oldest and most distinguished research groups in category theory. Category theory, a branch of mathematics, identifies patterns and structures occurring across diverse areas of mathematical discourse, and distils them down to their essential nature. CoACT members are pioneers of monoidal, enriched and higher-dimensional category theory, areas that are increasingly fundamental to modern algebraic geometry, representation theory, and mathematical physics. Other fields that CoACT research has influenced include low-dimensional topology, programming language semantics, symbolic logic, and quantum groups.
What you will do

KEY ACCOUNTABILITIES
The successful candidate will be responsible for the following:

• In consultation with the Executive Dean, develop a strategic plan for the Department that is aligned to Faculty and University strategy, and engage staff within the Department to achieve that plan.

• Drive the overall academic performance of the Department in meeting the University’s objectives through:
  – fostering a culture of transformative learning, innovation and excellence in teaching aligned to the objectives of the Learning and Teaching Strategic Framework 2015–2020
  – attracting high-calibre students at the undergraduate and postgraduate levels
  – enhancing the research profile of the Department in alignment with the Strategic Research Framework 2015–2024 World-Leading Research; World-Changing Impact
  – leading new and innovative programs and course development to enhance graduate employability and reputation
  – developing and managing collaborative local, national and international partnerships aimed at expanding research opportunities and raising the profile of the department.

• Provide leadership and mentoring to staff to achieve potential and sustain high performance through:
  – supporting staff in achieving their research, teaching and service objectives, and addressing any potential barriers to high performance
  – attracting and retaining high-performing staff to enable the vision and strategy of the Department
  – establishing, promoting and maintaining a collegial, collaborative and productive culture within the Department.

• Oversee the effective administration of the Department’s budgets and resources, including optimising the allocation of resources, operating within budget and meeting relevant legislative and compliance obligations.

• Build and sustain relationships with external stakeholders, such as potential students and high schools, potential employers of students, donors, alumni, the community, business and government to ensure the interests of the Department are effectively promoted and advanced.

REPORTS TO
Executive Dean, Faculty of Science and Engineering

DIRECT REPORTS
This position will have oversight of Department Professional and Academic staff.
Selection criteria

To be considered for this position, you must address the following selection criteria:

• collaborative and transformational leadership that unites and inspires people and creates an environment of high performance and collegiality
• strong capability to manage financial and physical resources and people to deliver outcomes against a background of change and development
• proven track record in developing and enabling multidisciplinary collaborations within the University and more widely
• strategic thinking, business development and implementation at a senior level
• ability to build productive relationships of trust and establish a culture in which people thrive
• a PhD in a suitable discipline and outstanding contributions to scholarship and research as evidenced by ongoing quality publications
• a record of excellence in teaching and innovative curriculum development that enhances the student experience
• outstanding communication skills including the ability to work effectively and collaboratively with key internal and external stakeholders.
Where you will work

A PLACE OF INSPIRATION
Uniquely located in the heart of Australia’s largest high-tech precinct, Macquarie brings together more than 44,000 students and 3400 staff in one thriving hub of discovery. Our campus spans 126 hectares, with open green space that gives our community the freedom to think and grow.

More than AU$1 billion has recently been invested in our facilities and infrastructure, so our students and staff can thrive in an environment that is both inspiring and switched on to the latest digital technologies. With more than 300 leading companies located on or around our campus, our students are able to tap into industry connections that give them an edge in their future careers, while our staff have access to outstanding research and innovation opportunities with some of the world’s leading organisations.

RENNOWNED FOR EXCELLENCE
Despite its youth, the University has risen to be a progressive and influential institution, and is highly regarded both locally and internationally.

Ranked among the top one per cent of universities in the world and with a 5-star QS rating, we are considered one of the world’s best universities, producing graduates who are among the most sought-after professionals in the world.

With our tradition of innovation and exploration, we continue to break new ground, ranking among the top 300 institutions in the world for accounting and finance; communication, cultural and media studies; marine sciences; education; language and literature; geography; law; linguistics; and psychology.

A PROUD TRADITION OF DISCOVERY
Our University is bold and innovative. Unconstrained by tradition, we take a pioneering approach to research. Such an approach is largely responsible for our enviable reputation for research excellence – 98 per cent of our research is ranked at world standard or above, and more than 160 of our researchers are ranked in the top one per cent of researchers in the world.

Our Strategic Research Framework 2015–2024 World-Leading Research; World-Changing Impact is brought to life by renowned researchers, whose audacious solutions to issues of global significance benefit the world we live in.

Looking to the future, we have developed five research priorities – Healthy People, Resilient Societies, Prosperous Economies, Secure Planet, Innovative Technologies – that provide a focal point for the cross-disciplinary research approach that is at the heart of our ethos.
Our purpose, vision and values

At Macquarie, we are not afraid to choose the less trodden path. We see life as an exhilarating source of possibilities to grow intellectually and professionally, unconstrained by traditions. We are ready to embrace new experiences and ideas.

We believe that a leader is about being a team player and know that success in today’s world is all about collaborating with the right people on the right issues.

We are naturally curious and open to the most diverse intellectual perspectives. United by a sense of purpose, a single vision and one set of values, we actively engage in the complex issues that define the future of humanity.

UNITED BY ONE PURPOSE
We are a university of service and engagement:
• We serve and engage our students and staff through transformative learning and life experiences.
• We serve and engage our world through discovery, dissemination of knowledge and ideas, innovation and deep partnerships.
• Our University is a place for staff and students to be nurtured and to grow, develop, learn and explore.
• We also encourage our people to break free – literally and metaphorically.

SHARING ONE VISION
We aspire to be:
• a destination of choice for students and staff who share our values
• deeply connected with our stakeholders and partners and known for this globally
• ranked among the highest-performing research universities in Australia, and recognised globally for our pre-eminence in key disciplines
• known across Australia and beyond as custodians of a remarkable university campus that blends the vibrancy of a cosmopolitan university village with a natural Australian bushland setting.

EMBODYING ONE SET OF VALUES
We value:
• Scholarship – We believe learning, inquiry and discovery improve lives.
• Integrity – We conduct ourselves ethically, equitably and for mutual benefit.
• Empowerment – We make our community a source of strength and creativity.

Through our actions as students and staff, we live these values and hold ourselves accountable.
Macquarie at a glance

- 5 QS Stars in teaching, employability, research, internationalisation, facilities, innovation, inclusiveness and specialist criteria
- Ranked in the top 1 per cent of universities in the world
- More than 10,000 degrees awarded annually
- More than 30,000 work placements or community experiences through PACE (Professional and Community Engagement) partnerships
- More than 200 industry partners on campus or in the adjacent high-tech precinct, providing access to internship and job opportunities
- Fully integrated health precinct centred around our on-campus hospital
- More than 184,000 alumni from over 140 countries
- More than 44,000 students from over 120 countries
- 100 per cent of research activity rated at world standard or above
- More than 150 partner universities for student exchange in over 40 countries
- More than 200 undergraduate and postgraduate degrees
- $1 billion invested in infrastructure and facilities in recent years
- 15 kilometres from the Sydney CBD
- 126 hectares of parklands
- Only university in Australia with its own train station

A WORLD-CLASS CAREER
HEAD OF DEPARTMENT, MATHEMATICS AND STATISTICS
How you can apply

APPLICATIONS
The University has engaged Odgers Berndtson to assist in the appointment process.
For a confidential discussion about the role, please contact Jane Harlen or Bryce Sait at MQUMS@odgersberndtson.com or + 61 (2) 8905 3721.
The closing date for applications is 10 November 2019.

SUBMIT THE FOLLOWING INFORMATION IN YOUR APPLICATION:

FULL RÉSUMÉ
Candidates are asked to set out in a résumé their most recent and significant career appointments and achievements, including details of leadership, management and professional experience, publications and grants and contributions to professional associations, societies and community activities.

CANDIDATE STATEMENT
In no more than five pages, outline what you would bring to this position and what you would hope to accomplish, as well as reflect on your experience in the context of the selection criteria.