

Lecturer in Mathematics Education
Faculty of Science
The University of Auckland
Full-time, Permanent

The Opportunity

The Department of Mathematics at the University of Auckland invites outstanding researchers to join our vibrant research in the Mathematics Education Unit focusing on university mathematics learning and teaching. We are seeking to fill a full-time tenure track position at the Lecturer level (equivalent to Assistant Professor in the USA system). We welcome applications from excellent researchers who are interested in joining our faculty and contributing through innovative research (theoretical and empirical), high-quality teaching and service. The candidate's research expertise should complement and enhance the existing research strengths in the Mathematics Education Unit.

About the Role

Candidates are expected to develop and lead innovative research programmes, collaborate with other researchers within and outside the University, supervise graduate students (domestic and international), teach undergraduate courses in mathematics and mathematics education and graduate courses in mathematics education, and apply for competitive research grants.

Skills and Experience

Our ideal candidate will have

- A PhD in Mathematics Education or a closely related field
- Demonstrated excellent international contribution to scholarly Mathematics Education
- Publication record in first-tier international research journals in Mathematics Education
- Evidence of a strong mathematics background sufficient to teach stage one university-level mathematics
- Teaching experience at undergraduate level, including the design and development of teaching resources, preferably in English

About Us

The Department of Mathematics is the largest and strongest Mathematics Department in NZ. It offers programmes in Mathematics, Applied Mathematics, and Mathematics Education. The interaction between research mathematics and mathematics education is an important feature of this environment. The Department of Mathematics has a large PhD programme and a vibrant research culture. More details are available at <<http://www.math.auckland.ac.nz/>>. The University of Auckland is New Zealand's leading university. The Department of Mathematics strives to provide a collegial work environment that promotes a healthy work-life balance and a stimulating research atmosphere. It is committed to achieving a better gender balance as well as being more inclusive for under-represented minorities.

The position would be available to start from January 2020 (negotiable).

Informal enquiries about the position and the Mathematics Education Unit may be directed to the Head of the Mathematics Education Unit, Dr Igor' Kontorovich <i.kontorovich@auckland.ac.nz>. More general enquiries about the Department and the University may be made to the Head of Department, Prof Steven Galbraith <s.galbraith@auckland.ac.nz>.

Please note we are happy to answer your questions but we do not accept applications by email.

How to Apply

Applications must be submitted online, by the closing date of **Sunday 7th July (11.59pm NZT)** to be considered. Please include the following combined as one document.

1. Short Cover letter
2. Curriculum vitae detailing a full list of publications, grants, and administration/service performed.
3. Teaching statement that lists teaching duties to date, student evaluations, and also a discussion of any innovations in teaching and/or experience with the design and development of teaching resources.

- Names and email addresses of three academic referees who may be contacted at the later stage in support of your application.

For further information go to www.auckland.ac.nz/opportunities to view the position description and FAQ.

FAQs

Q: What is the ratio of Research:Teaching:Service in this job?

A: The ratio is 40% Research : 40% Teaching : 20% Service.

Q: What kind of support is there for research?

A: Research is highly valued and supported in the department. Lecturers are encouraged to apply for internal and external research funds, and are eligible for international research travel grants and sabbaticals. There is a high level of support for new lecturers in applying for and obtaining early career research grants.

Q: What kind of international research collaboration can I realistically expect in Auckland?

MEU academics are actively involved in collaborating with international researchers, and we regularly host visits from prominent international mathematics educators. Recent visitors include: Anna Sfard, Barbara Jaworski, Ferdinando Arzarello, Merrillyn Goos, Celia Hoyles, Richard Noss, Colette and Jean-Marie Laborde, Barbara and Robert Reys, Alan Schoenfeld, Frank Lester, Michele Artigue, and others. There are many funds available to attend international conferences and collaborations, and MEU academics are highly supported to establish and maintain strong international research networks through generous sabbatical leave and flexible teaching schedules.

<https://www.math.auckland.ac.nz/en/about/our-research/research-groups/mathematics-education.html>

Q: What is the typical teaching load for one year?

A: A typical load is 2 courses per year. This can be reduced using teaching buyout from external grants, and significant service roles.

Q: What courses would I teach?

A: You would be expected to teach the following types of courses:

- Undergraduate mathematics courses, which include topics such as calculus and linear algebra.
- Undergraduate mathematics education courses

<https://www.math.auckland.ac.nz/en/about/our-courses/undergraduate-courses.html>

- Postgraduate mathematics education courses, which include topics such as Theories in Mathematics Education, Research Methods in Mathematics Education, Mathematical Processes, and others.

<https://www.math.auckland.ac.nz/en/about/our-courses/postgraduate-courses.html>

Q: How much interaction would I have with teachers?

A: We have strong links with secondary school teachers in the wider Auckland community. However, this position does not involve pre-service teacher education. The mathematics education courses mentioned above can serve as a pipeline for undergraduate and postgraduate mathematics students who may go on to study at the Faculty of Education to become secondary school teachers. Many secondary school mathematics teachers take the postgraduate courses and enrol in Master and PhD degrees as part of their in-service professional development.

Q: What is it like living in Auckland, New Zealand?

A: Auckland offers an attractive lifestyle. The city is built on a narrow isthmus between two harbours and is surrounded by 11 dormant volcanoes and numerous picturesque islands. Auckland is nicknamed the 'City of Sails' because of the high number of yachts that sail in the harbours and the adjoining Hauraki Gulf. To the west of the city, the Waitakere Ranges rainforest forms a gateway to magnificent west coast surf beaches and an abundance of forest walks. [Auckland](#) is a city with a rich cosmopolitan mix of peoples and temperate climate.

Q: Do I get some assistance with the relocation process?

A: Definitely. The University of Auckland provides a generous relocation package that includes professional assistance with applying for a work visa; airfares for you, your partner and dependent children, and shipment of household effects on a door-to-door basis. In addition, you will be provided with accommodation for up to 21 days immediately following arrival, a rental car for two weeks and an orientation tour of Auckland.