

## **Job Opportunities: Two positions at Lecturer/Senior Lecturer in Mathematics Education**

Applications are invited for two full time permanent positions at the Lecturer/Senior Lecturer level (equivalent to Assistant/Associate Professor in the USA system) in Mathematics Education within the Department of Mathematics at The University of Auckland, New Zealand. One of the appointments will be made at Lecturer Level, the other may be at either Lecturer or Senior Lecturer.

The successful candidates will be part of the department's Mathematics Education Unit and will be expected to establish their own research portfolio that attracts external funding and postgraduate students as well as collaborate with other researchers within and outside the University. Their research expertise should complement existing research strengths in the Mathematics Education Unit, which include tertiary and upper secondary mathematics teaching and learning, technology in mathematics education, mathematical conceptual development, and mathematical task design. They will also be expected to undertake high-quality teaching in undergraduate level mathematics and mathematics education, and postgraduate level mathematics education, and to perform service roles for the Department of Mathematics.

The positions are intended for candidates with a Masters or BSc(Hons) degree in Mathematics and a PhD in Mathematics Education, or alternatively, a PhD in Mathematics and an international research record in Mathematics Education. The candidates must demonstrate a strong commitment to excellence in research in Mathematics Education and will exemplify excellence in the teaching of mathematics at undergraduate or senior secondary school level. Evidence of high quality research and teaching will be necessary, including a high quality publication record commensurate with the time since doctoral completion. Evidence of the ability to attract grant funding would be advantageous. Applicants will be considered from any area of Mathematics Education, although it is expected that research will be at the upper secondary or undergraduate levels.

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. It has a large PhD programme and a vibrant research culture. More details about the Department are available at: <http://www.math.auckland.ac.nz/>

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 bush walks. Auckland is a city with a rich cosmopolitan mix of peoples and temperate climate. <http://www.aucklandnz.com/> The University also has a licensed immigration advisor to support a seamless move to starting work in New Zealand.

The official notices for these positions can be found at: Lecturer/Senior Lecturer (ID 1699) – [https://www.opportunities.auckland.ac.nz/psp/ps/EMPLOYEE/HRMS/c/HRS\\_HRAM.HRS\\_CE.GBL?Page=HRS\\_CE\\_JOB\\_DTL&Action=A&JobOpeningId=16991&SiteId=1&PostingSeq=1](https://www.opportunities.auckland.ac.nz/psp/ps/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_JOB_DTL&Action=A&JobOpeningId=16991&SiteId=1&PostingSeq=1)

Lecturer (ID 16992) – [https://www.opportunities.auckland.ac.nz/psp/ps/EMPLOYEE/HRMS/c/HRS\\_HRAM.HRS\\_CE.GBL?Page=HRS\\_CE\\_JOB\\_DTL&Action=A&JobOpeningId=16992&SiteId=1&PostingSeq=1](https://www.opportunities.auckland.ac.nz/psp/ps/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_JOB_DTL&Action=A&JobOpeningId=16992&SiteId=1&PostingSeq=1)

Informal enquiries about the position and Mathematics Education Unit may be directed to the Head of Mathematics Education Unit, Associate Professor Caroline Yoon <[c.yoon@auckland.ac.nz](mailto:c.yoon@auckland.ac.nz)>

More general enquiries about the Department and the University may be made to the Head of Department, Professor Eamonn O'Brien <[e.obrien@auckland.ac.nz](mailto:e.obrien@auckland.ac.nz)>

Applications must be received via the University HR site by April 15<sup>th</sup>, 2015.

## 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 and Senior Lecturers are encouraged to apply for internal and external research funds, and are eligible for international research travel grants and sabbaticals. The Mathematics Education Unit has hosted many visits from prominent international mathematics educators, such as Tommy Dreyfus, Alan Schoenfeld, Frank Lester, Michele Artigue, Ferdinando Arzarello and others.

<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 2.5 courses per year. This can be reduced using teaching buyout from external grants, and further reductions are allowed for significant levels of PhD and Masters student supervision, research productivity, and service roles.

### **Q: What kinds of courses would I teach?**

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

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

- Undergraduate mathematics education courses - see links below:

<https://www.math.auckland.ac.nz/en/about/our-courses/stage-2-courses.html#b7d57ca8761d6d9f5e1c7ee65cc3fd7d>

<https://www.math.auckland.ac.nz/en/about/our-courses/stage-3-courses.html#2102e791a45b8551992ef14920048086>

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

### **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 preservice 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. Some secondary school mathematics teachers take the postgraduate courses and enrol in Master and PhD degrees as part of their inservice professional development.