



THE UNIVERSITY OF
SYDNEY

—
**Mathematical
Research
Institute**

Domestic Visitor Program Terms and Conditions Version of January 2021

Deadline for application: 2-6 months before the start of the proposed visit

Applications for visits not meeting the following conditions may be accepted in special circumstances with prior arrangement. Please direct questions to the Institute's Executive Director, Professor Anthony Henderson, smri.exec@sydney.edu.au.

- (1)** At the time of application, applicants must hold a PhD or equivalent degree, and must be employed by a university, institute, laboratory or other similar organisation located in Australia. If the application is successful, their employer would be expected to approve their research visit to SMRI and their entering into a research affiliation with The University of Sydney for the period of that research visit. Applicants who are not Australian citizens must hold an Australian visa of a class which would allow the research visit.
- (2)** Applicants should have an established program of research in the mathematical sciences ([ANZSRC Division 49](#)).
- (3)** Applicants should propose a research visit to SMRI, of at least 2 weeks' duration, commencing at least 2 months and at most 6 months after the time of application.
- (4)** A group of at most 4 applicants who propose to visit SMRI at the same time in order to collaborate on a research project may submit a single joint application. In this case each applicant must individually satisfy the above eligibility conditions.
- (5)** In addition to their proposed research project, applicants are strongly encouraged to propose a research-related activity such as a short workshop or symposium which they would organize to coincide with their visit to SMRI, with the assistance of SMRI staff. Such an activity should be designed so as to be accessible, at least in part, to an online audience.
- (6)** Applicants whose proposed projects involve collaboration with academic staff members of The University of Sydney must identify one such staff member who has agreed to be designated the host of their proposed visit. Hosts will be contacted to confirm their support for the visit, including any potential financial contribution, and their comments will be taken into account in assessing the benefit of the proposed visit.

Successful applications will be selected by the SMRI Scientific Advisory Committee, as named on the website, and other expert colleagues as required. The selection criteria are:

- Applicant's research track record, assessed relative to opportunity (taking into account time since PhD and any research career interruptions).
- Benefits of the proposed visit, including any associated activity, for Australian research in the mathematical sciences.
- Considerations of diversity, equity and inclusion in relation to, for example, field of research within the mathematical sciences, gender of applicant and host(s), and number of years post PhD of applicant and host(s).

Applications from female and gender-diverse researchers, and from researchers belonging to other groups which are underrepresented in the mathematical sciences, are particularly encouraged.

Successful applicants will be able to use a research office and the other facilities of SMRI in a manner which is compatible with NSW COVID-19 guidelines on physical distancing and hygiene. Applicants who are not normally based in Sydney may receive funding of up to A\$840 per week, for a maximum of 5 weeks, to assist with accommodation and other local expenses during their visit. In addition, they may obtain reimbursement of one return economy airfare or equivalent amount up to a maximum of A\$500. If required, they can be assisted by SMRI staff in locating suitable accommodation for their stay in Sydney, as well as childcare and school options for those travelling with children. Note that all benefits depend on a signed agreement with The University of Sydney, identity verification, and the presentation of receipts in the case of airfare reimbursement.

By submitting an application you consent that the information may be shared with SMRI staff and Scientific Advisory Committee members as well as with the nominated host, if necessary. This information will not be used for any purpose other than the ranking and selection of applicants and the compiling of anonymised reports on the selection process. A list of successful applicants, with the dates and other details of their visits, will be posted on the Institute's website.

To apply, please email smri.exec@sydney.edu.au before the deadline with the following information and PDF attachments, for each applicant involved:

- Personal details: full name as used professionally, home (residential) address, telephone number, gender, Aboriginal or Torres Strait Islander status, disabilities requiring work-related adjustment (if any).
- Primary six-digit Field of Research code in the [ANZSRC 2020 classification](#) (see below) and verbal summary of areas of research interest and expertise (comma-separated list, max 25 words).

- [Attached as a single PDF file] Up-to-date CV including current employment, date of PhD completion, details of any research career interruptions, and a full publication list.
- [Attached as a single PDF file] 1–2 page outline of a proposed research visit to SMRI meeting the above conditions, including proposed arrival and departure dates, name and email address of University of Sydney host if appropriate, some details of the research project(s) you will work on at SMRI and any current or potential collaborators, the associated activity you will organize, and any other confirmed or potential sources of funding for the visit.
- [Attached as a single JPEG or PDF file] Passport ID page.
- [Attached as a single PDF file, for non-Australian citizens] Evidence of current visa status.

ANZSRC 2020 – Division 49 Mathematical Sciences

Applied mathematics:

490101 Approximation theory and asymptotic methods

490102 Biological mathematics

490103 Calculus of variations, mathematical aspects of systems theory and control theory

490104 Complex systems

490105 Dynamical systems in applications

490106 Financial mathematics

490107 Mathematical methods and special functions

490108 Operations research

490109 Theoretical and applied mechanics

490199 Applied mathematics not elsewhere classified

Mathematical physics:

490201 Algebraic structures in mathematical physics

490202 Integrable systems (classical and quantum)

490203 Mathematical aspects of classical mechanics, quantum mechanics and quantum information theory

490204 Mathematical aspects of general relativity

490205 Mathematical aspects of quantum and conformal field theory, quantum gravity and string theory

490206 Statistical mechanics, physical combinatorics and mathematical aspects of condensed matter

490299 Mathematical physics not elsewhere classified

Numerical and computational mathematics:

490301 Experimental mathematics

490302 Numerical analysis

490303 Numerical solution of differential and integral equations

490304 Optimisation

490399 Numerical and computational mathematics not elsewhere classified

Pure mathematics:

- 490401 Algebra and number theory
- 490402 Algebraic and differential geometry
- 490403 Category theory, K theory, homological algebra
- 490404 Combinatorics and discrete mathematics (excl. physical combinatorics)
- 490405 Group theory and generalisations
- 490406 Lie groups, harmonic and Fourier analysis
- 490407 Mathematical logic, set theory, lattices and universal algebra
- 490408 Operator algebras and functional analysis
- 490409 Ordinary differential equations, difference equations and dynamical systems
- 490410 Partial differential equations
- 490411 Real and complex functions (incl. several variables)
- 490412 Topology
- 490499 Pure mathematics not elsewhere classified

Statistics:

- 490501 Applied statistics
- 490502 Biostatistics
- 490503 Computational statistics
- 490504 Forensic evaluation, inference and statistics
- 490505 Large and complex data theory
- 490506 Probability theory
- 490507 Spatial statistics
- 490508 Statistical data science
- 490509 Statistical theory
- 490510 Stochastic analysis and modelling
- 490511 Time series and spatial modelling
- 490599 Statistics not elsewhere classified

Other mathematical sciences:

- 499999 Other mathematical sciences not elsewhere classified