MENTORING AFRICAN RESEARCH IN MATHEMATICS (MARM)

Sponsorship opportunities for academic partnerships in Africa
THE MARM PROGRAMME

The aim of the programme is to enable all mathematicians in Africa to pursue academic careers of the highest standard.

Supporting the development of a vibrant mathematical community within and across Africa should provide a subsequent impact throughout the world of mathematics.

MARM links African academics with their UK and European counterparts via professional mentoring partnerships. In doing so, MARM provides the means and opportunities for African mathematicians to develop international working relationships while also improving the quality of academic provision within their home institutions.

It is believed that enhancing and developing academic research and research institutions in Africa will help ensure that pursuing world-class mathematical careers within Africa will be both achievable and a more attractive option than moving permanently. Over time, the strengthening of the mathematical community across Africa will benefit not only the African community itself, but worldwide mathematics as a whole.
THE MARM PARTNERSHIPS

23 partnerships have been awarded to date in: Cameroon, Ethiopia, Ghana, Ivory Coast, Kenya, Malawi, Morocco, Namibia, Nigeria, Republic of the Congo, Rwanda, Senegal, South Africa, Tanzania and Uganda.

Each partnership has collaboratively defined its own objectives and priorities specific to the needs of the African institution and its own targeted methods of accomplishing these.

Activities undertaken have included:

- Exchange visits
- Lectures, seminars and workshop series at African institutions
- Joint PhD supervision
- Improvements in library and IT resources at African institutions
- Support for conference attendance (in Africa and internationally)
- Consultancy and advice on developing postgraduate programmes
- Mentoring and support for African postgraduate students with respect to wider academic and life skills
- Mentoring African early career staff in research and other skills
- Working with African university administrators to improve recruitment
- Improving African departmental structuring
- Working with African institutions to ensure the maintenance of resources for mathematics departments
- Developing of research contacts and networking
Organisations involved in running the programme

- **A** Nairobi, Kenya
  - African Mathematics Millennium Science Initiative
- **B** London, UK
  - London Mathematical Society
- **C** Berlin, Germany
  - International Mathematical Union
# MARM in Africa

## Round 1 Partnerships

1. Kwame Nkrumah University of Science and Technology, Ghana  
   Partnered with  
   1. University of Leicester, UK  
2. University of Buea, Cameroon  
   Partnered with  
   2. Heriot-Watt University, UK  
3. Addis Ababa University, Ethiopia  
   Partnered with  
   3. Brunel University, UK

## Round 2 Partnerships

4A. Bahir Dar University, Ethiopia  
4B. National University of Rwanda, Rwanda  
4C. University of Ilorin, Nigeria  
   All partnered with  
   4. University of York, UK  
5. Makerere University, Uganda  
   Partnered with  
   5. University of Bath, UK  
6. Université de Cocody-Abidjan, Ivory Coast  
   Partnered with  
   6. Stockholm University, Sweden  
7. Kenyatta University, Kenya  
   Partnered with  
   7. Sapienza – Università di Roma, Italy

## Round 3 Partnerships

8. University of Ghana, Ghana  
   Partnered with  
   8. University of Cambridge, UK  
9. University of Dar Es Salaam, Tanzania  
   Partnered with  
   9. University of Bath, UK  
10. Maseno University, Kenya  
   Partnered with  
   10. University of Oxford, UK  
11. University of Nairobi, Kenya  
   Partnered with  
   11. University of Sussex, UK

## Round 4 Partnerships

12. University of Cape Town, South Africa  
   Partnered with  
   12. Athens University of Economics and Business, Greece  
13. Université Mohamed V-Agdal, Morocco  
   Partnered with  
   13. Newcastle University, UK  
14. University of Nairobi, Kenya  
   Partnered with  
15. Marien Ngouabi University, Congo  
   Partnered with  
   15. Université de Bordeaux, France

## Round 5 Partnerships

16. Moi University, Kenya  
   Partnered with  
   16. University of South Wales, Wales  
17. University of KwaZulu-Natal, South Africa  
   Partnered with  
   17. University of Birmingham, UK  
18. University of Malawi, Malawi  
   Partnered with  
   18. Imperial College, London  
19. University of Douala, Cameroon  
   Partnered with  
   19. University of Malaga, Spain

## Round 6 Partnerships

20. Université Gaston-Berger, Senegal  
   Partnered with  
   20. University of Cambridge, UK  
21. University of Namibia, Namibia  
   Partnered with  
   21. Politecnico di Torino, Italy  
22. Adama Science and Technology University, Ethiopia  
   Partnered with  
   22. Brunel University, UK  
23. Université Félix Houphouët-Boigny, Ivory Coast  
   Partnered with  
   23. University of Bristol, UK
WHAT MARM HAS ACHIEVED

From a relatively low-level investment, the outcomes of MARM have been substantial:

+ Directly led to the leveraging of external funds into the National Institute of Mathematical Science at Kwame Nkrumah University of Science and Technology, Ghana
+ Supported the Kenyatta University International Mathematics Conference series and the International Conference on Mathematics and its Applications, encouraging networking and attracting international speakers to the continent
+ Development of the next generation of African mathematicians via supervision and support for postgraduate students
+ Lasting improvements to a number of higher education facilities
+ Fundamental institutional improvements including improved and enhanced academic curricula and departmental organisation and resourcing
+ Joint publications by European and African Researchers
HOW CAN YOU BE INVOLVED?

The LMS wants to build upon the extensive work and successes already achieved by the MARM programme.

We are looking for new sponsorship to both continue and expand the mentoring partnerships. With more funds we can increase the grants available to partnerships and extend the length, thus enabling the partnerships to develop further and more deeply.

With available funding there are other opportunities that we would welcome the opportunity to explore such as:

- Web-based learning and its implications at both undergraduate and postgraduate level
- Masters level education – including courses, teaching and student mentoring – and its contributions to the academic pipeline in Africa
- Postgraduate scholarships in Africa to support academic needs from postgraduate education to conference attendance
- International conference series in Africa – developing the foundations already laid and taking these to world class level

We would welcome further discussion on how best the programme can be developed and funding maximised.

www.lms.ac.uk/mentoring-african-research-mathematics-marm
The Mentoring African Research in Mathematics (MARM) programme has been running since 2006 with original funding from the Nuffield Foundation and the Leverhulme Trust.

The London Mathematical Society’s current MARM programme is sponsored by the London Mathematical Society and the International Mathematical Union (IMU) in association with the African Mathematics Millennium Sciences Initiative (AMMSI).

The members of the MARM Board are: Chair: Frank Neumann (Leicester), Balazs Szendroi (Oxford), Mark Roberts (Surrey), Tanniemola Liverpool (Bristol), Anne-Sophie Kaloghiros (Brunel) and Anotida Madzvamuse (Sussex).

Please direct any questions on the MARM programme to MARM@lms.ac.uk