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PhD Studentship, Warwick Medical School, University of Warwick, UK

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PhD Studentship, Warwick Medical School, Biomedical Cell Biology

Supporting Partner: Warwick Private Hospitals Charitable Trust

This is an outstanding opportunity for a practically-minded Physicist, Engineer or Biologist with an interest in modern digital optical microscopy to pursue a PhD qualification in optical microscope control engineering. As part of a wider programme in digital optical microscopy, we are currently developing the **Warwick Open Source Microscope (WOSM)**, <http://wosmic.org>). The WOSM uses a compact optical design that is exceptionally physically stable, opening up new opportunities for ultra high resolution optical microscopy. The most innovative aspect of the WOSM is its control scheme.

The entire microscope is controlled from a web browser via a local microcontroller, allowing remote operation and allowing several microscopes to be controlled from a single web browser. The immediate opportunity is for a student to take on the work of implementing Raspberry Pi integration.

The WOSM project website will serve software, data and community-based support for both hardware and software. There are opportunities in implementing this, also.

More Detail: Currently the WOSM microcontroller (PIC32mx 80MHz) serves the microscope control web-pages and controls the microscope timing. To improve system latency this project will begin by moving the web control front-end to a Raspberry Pi. The student will also assist in the development of an ultra-stable laser tweezers WOSM. This will be a microscope for making recordings from single motor protein molecules (measuring piconewton forces and nanometer scale movements of single molecules).

The student will need to have an interest in microscope development and control as well as competence in one or more of the following:

- Web development (including HTML/CSS/Javascript/Jquery)
- Application development (C/C++/C#)
- CAD, 3D design and 3D printing
- Embedded system development with in-circuit debugging (PIC, ATMEL or ARM)
- Digital circuit design and interfacing

Awards available: 1 award available

Funding Details: Fees and maintenance at RCUK level

Eligibility: Open to both Home/EU and Overseas applicants

Length of Award: 4 years (PhD)

Application Details:

Candidates should have at least a 2:1 degree in a relevant subject, and be able to demonstrate relevant understanding, interests and abilities. The successful candidate will work closely with Dr Nick Carter, the WOSM design-engineer.

For further details or information applications please contact Nick Carter, nick.carter@warwick.ac.uk

Deadline: **20 September 2013**

1. Fully Funded Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
2. Master Scholarships, Faculty of Medicine, Imperial College London, UK
3. Fully Funded YSEALI Academic Fellowship, USA
4. Fully Funded Australia Awards Scholarships
5. Fully Funded GCE A Level Scholarships for Indonesian Students, Singapore
6. Fully Funded Master Scholarships, Kyoto University, Japan
7. Fully Funded Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE
8. Fully Funded Scholarships in Astronomy, University of Cambridge, UK
9. Full Tuition Fee LLM Scholarships, University of Warwick, UK
10. Fully Funded Scholarships – Qatar University
11. Fully Funded Scholarships, Bond University, Australia
12. Fully Funded Art Major Asian plus Scholarships, Korea National University of Arts, South Korea
13. Full Funded VLIR-ICP Master Scholarships, KU Leuven, Belgium
14. Fully Funded Fulbright Distinguished Awards in Teaching Program, USA
15. Fully Funded Scholarships, Pukyong National University, South Korea
16. Fully Funded Scholarships, Yeungnam University, South Korea
17. Fully Funded Scholarships, Sungkyunkwan University, South Korea
18. Fully Funded Scholarships, Sunchon National University, South Korea
19. Fully Funded Scholarships, Seoul National University of Science and Technology, South Korea
20. Fully Funded Scholarships, Pusan National University, South Korea
21. Fully Funded Scholarships, Kyungpook National University, South Korea
22. Fully Funded Scholarships, University of New England, Australia
23. Fully Funded Scholarships, Kunsan National University, South Korea
24. Fully Funded Scholarships, Kookmin University, South Korea
25. Fully Funded Scholarships, Kangwon National University, South Korea
26. Fully Funded Scholarships, Jeonbuk National University, South Korea
27. Fully Funded Scholarships, Hoseo University, South Korea
28. Fully Funded Scholarships, Gyeongsang National University, South Korea
29. Fully Funded Scholarships, Dongseo University, South Korea
30. Fully Funded Scholarships, Dongguk University, South Korea
31. Fully Funded Scholarships, Chung-Ang University, South Korea
32. Fully Funded Scholarships, Chonnam National University, South Korea
33. Fully Funded Scholarships, Ajou University, South Korea
34. Fully Funded Graduate Scholarships for International Students, South Korea
35. Fully Funded Fulbright Foreign Language Teaching Assistant, USA
36. Fully Funded Scholarships, CERGE-EI, Czech Republic
37. Full Tuition Fee Scholarships for Female Students from Developing Countries, Swansea University, UK
38. Master Scholarships, University of Twente, Netherlands
39. Fully Funded Sport Management Scholarships, Seoul National University, South Korea
40. Fully Funded ADB JSP Scholarships, Asian Institute of Technology, Thailand
41. Undergraduate Maths Scholarships for International Students, University of Edinburgh, UK
42. Fully Funded Scholarships in Singapore
43. Tuition + Living Allowance Scholarships, University of Waikato, New Zealand
44. Fully Funded Scholarships, Okinawa Institute of Science and Technology, Japan

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1. Beasiswa Penerbit Erlangga - Universitas Bengkulu
 2. Beasiswa Putra-Putri Transmigran Berprestasi - Universitas Gadjah Mada
 3. VLIR-ICP Master Scholarships, KU Leuven, Belgium
 4. Beasiswa UGM - Universitas Gadjah Mada
 5. Women and Diversity Undergraduate Scholarship - PT. Thiess Contractors Indonesia
 6. Art Major Asian plus Scholarship, Korea National University of Arts
 7. Nailekhanim Foundation Scholarship, Khazar University, Azerbaijan
 8. Fulbright Foreign Language Teaching Assistant (FLTA), American Indonesian Exchange Foundation, USA
 9. Eira Francis Davies Scholarship, Swansea University, UK
 10. Beasiswa Mahasiswa - Pemerintah Kota Pekanbaru
 11. Beasiswa Master 2, Prancis
 12. Beasiswa Tematik, Prancis
 13. Beasiswa Kartini Sains, Prancis
 14. Beasiswa France Excellence S2, Prancis
 15. Beasiswa France Excellence D3 / S1, Prancis
 16. University of Waikato Doctoral Scholarship, New Zealand
 17. Asian Development Bank - Japan Scholarship Program (ADB-JSP), Asian Institute of Technology, Thailand
 18. University of Twente Scholarship (UTS), Netherlands
 19. Australian Government Research Training Program (RTP) Scholarship, Bond University, Australia
 20. Australia Awards Scholarships
 21. Faculty of Medicine Dean Master Scholarships, Imperial College London, UK

22. International Graduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST)
23. Asian Future Leaders Scholarship Program, Kyoto University, Japan
24. Beasiswa Bantuan Penelitian - Bank Indonesia Institute
25. Beasiswa Mahasiswa Berprestasi Non Akademik - Provinsi Kalimantan Barat
26. Future Leader Scholarship, LASALLE College of the Arts, Singapore
27. Beasiswa Talenta Atlet, Seni dan Sains - Universitas Muhammadiyah Yogyakarta (UMY)
28. Beasiswa Kader Unggulan Muhammadiyah (KAUM) - Universitas Muhammadiyah Yogyakarta (UMY)
29. Beasiswa Dokter dan Dokter Gigi Muhammadiyah - Universitas Muhammadiyah Yogyakarta (UMY)
30. Talent Scholarship - Qatar University
31. PhD Scholarships in Economics, CERGE-EI, Czech Republic
32. Fulbright Distinguished Awards in Teaching Program for International Teachers (Fulbright DAI), USA
33. Beasiswa Jalur Prestasi, D3 Teknologi Pengolahan Kelapa Sawit, Institut Teknologi dan Sains Bandung
34. Beasiswa SMART Mills - PT Sinar Mas Agro Resources and Technology Tbk
35. Beasiswa SMART Agro - PT Sinar Mas Agro Resources and Technology Tbk
36. Vice Chancellor's International Excellence Scholarship, University of Waikato, New Zealand
37. Boustany Astronomy Scholarship, University of Cambridge, UK
38. Boustany Cambridge Pembroke Scholarship in Philosophy, University of Cambridge, UK
39. Vice-Chancellor's International Scholarships Scheme, University of Sydney, Australia
40. Edinburgh Global Undergraduate Mathematics Scholarships, University of Edinburgh, UK
41. PhD Scholarships, Singapore International Graduate Award (SINGA)
42. PhD Scholarships, United Arab Emirates University, UAE
43. International Postgraduate Research Award (IPRA), University of New England, Australia
44. ASEAN Scholarships for Indonesia by Ministry of Education, Singapore
45. Master and PhD Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
46. Fully Funded PhD Scholarships, Okinawa Institute of Science and Technology Graduate University, Japan
47. Dr Goh Keng Swee (GKS) Scholarship for Undergraduate Students, Singapore
48. Graduate Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE
49. Master & PhD Scholarships, Honjo International Scholarship Foundation, Japan
50. ASEAN Graduate Scholarship, Nanyang Technological University, Singapore
51. Bond University Postgraduate Research Scholarship (BUPRS), Australia

Last updated: 11 September 2013