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PhD Studentships, Department of Physics & Astronomy, University of Sussex, UK

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PhD Studentship: Inertial sensors and lattices for Quantum Technology

A 3.5 year PhD position is available in the Atomic, Molecular and Optical Physics Group with Prof. Barry Garraway in the Department of Physics & Astronomy at the University of Sussex.



University of Sussex

The position consists of current fees and a yearly stipend of £14296 which can be supplemented by tutoring. The position also includes an annual travel allowance. You should have a physics, electrical engineering or related degree.

The physics of ultra-cold atoms provides fantastic opportunities for the development of new ideas with applications such as new and more precise sensors in quantum technology. This theory project is expected to co-operate with experimental work: the PhD student will take a leading role in the development of techniques for the control of ultra-cold atoms. The work aims to make theoretical studies of quantum systems in topologies such as atoms in elongated traps, rings, lattices, shells and toroids. The work may have applications to interferometry, rotation sensing, accelerometers and quantum information processing.

The project will build on recent proposals to make microwave loop traps [1] and lattices [2] for ultra-cold atoms that may be used for model condensed matter simulations and quantum information processing on a grid. For a recent review of related work see [3]. The project is mostly theoretical, but there may be an opportunity for experimental work, too. The project will be connected to work in the UK Quantum Technology hub in sensors and metrology as the work in this project is highly relevant, as underpinning science, to the development of quantum technologies.

The University of Sussex is located a short distance from the city of Brighton and Hove. It is a vibrant seaside location, boasting beautiful views and a huge range of activities and attractions. The city has great transport links, and the area is surrounded by unique villages and the South Downs National Park.

References: [1] Radio-frequency dressed lattices for ultracold alkali atoms, G.A. Sinuco-León and B.M. Garraway, *New J. Phys.* 17, 053037 (2015); Addressed qubit manipulation in radio-frequency dressed lattices, G.A. Sinuco-León and B.M. Garraway, *New J. Phys.* 18, 035009 (2016).

[2] Inductively guided circuits for ultracold dressed atoms, G. Sinuco-León, K. Burrows, A.S. Arnold, and B.M. Garraway, *Nat. Commun.* 5, 5289 (2014).

[3] Recent developments in trapping and manipulation of atoms with adiabatic potentials, B.M. Garraway and H. Perrin, *J. Phys. B* 49,

172001 (2016).

Type of award

Postgraduate Research

Award amount

£14296 (2016-17) per annum tax-free bursary and waiver of fees each year for 3.5 years. Full-time study

Eligibility

First class degree in Physics or similar; or a 2.1 degree with a Masters or equivalent non-UK qualifications.

Non-UK students must have English at IELTS 6.0 or equivalent, and Overseas students requiring a visa must have an English certificate.

High calibre International student applications are greatly encouraged.

Application procedure

Please apply online at <http://www.sussex.ac.uk/study/phd/apply> and say that you are applying for the PhD Studentship: Inertial sensors and lattices for Quantum Technology in the finance section.

Timetable

Early application is advised. The studentship will be allocated as soon as a suitable candidate is found.

Further information

This is a full-time studentship. With agreement of the supervisor the student may take on a limited amount of teaching, for which additional payment will be made.

The award includes an additional training grant of £1250 p.a. for short courses, books, travel, conferences etc.

Contact details

The project will be supervised by Professor Barry Garraway

Enquiries about your eligibility, the progress of your application and admission to Sussex, should be sent to Rebecca Foster

Application deadline: **1 October 2018**

1. Master Scholarships for International Students, Malmö University, Sweden
 2. Space Studies Scholarships, International Space University, France
 3. Fully Funded Master Scholarships for International Students, Utrecht University, Netherlands
 4. Full Tuition Fee Fashion Scholarships, International Fashion Academy, France
 5. Master Scholarships for International Students, Uppsala University, Sweden
 6. Fully Funded Master Scholarships, Perimeter Institute for Theoretical Physics, Canada
 7. Full Tuition Fee Scholarships for Female Students from Developing Countries, Swansea University, UK
 8. Full Tuition + Allowance Undergraduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST), South Korea
 9. Fully Funded Scholarships, Kochi University of Technology, Japan
 10. MA Scholarships in Refugee Protection and Forced Migration Studies, University of London, UK
 11. Fully Funded PhD Scholarships in Economics, CERGE-EI, Czech Republic
 12. Fully Funded PhD Scholarships, Nanyang Technological University, Singapore
 13. Full Tuition Fee + Grant, MSc in Engineering Scholarships, University of Southern Denmark
 14. Business School Master Scholarships, University of Leeds, UK
 15. Master Scholarships for International Students, Örebro University, Sweden
 16. Music Scholarships, Musicians Institute, USA
 17. Full Tuition Fee Master Scholarships, Chalmers University of Technology, Sweden
 18. Full Tuition Fee MBA Scholarships, New York University, USA
 19. Fully Funded Scholarships, Bond University, Australia
 20. Fully Funded Graduate Scholarships for International Students, University of Adelaide, Australia
 21. Fully Funded Fulbright Scholarships for Indonesian Students, USA
 22. Fully Funded Scholarships and Fellowships, Australia
 23. Fully Funded Research Studentships for International Students, University of Reading, UK
 24. Fully Funded PhD Scholarships for International Students, University of Warwick, UK
 25. Full Tuition Fee MBA Scholarships for International Students, Melbourne Business School, Australia
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1. H.E. Dr Issa Ghanim Jassim Al-Kawari Scholarship, SOAS, University of London, UK
2. CSJR Postgraduate Student Bursary, SOAS, University of London, UK
3. MSc Young Leader Scholarship, HHL Europe, Germany
4. MBA Young Leader Scholarship, HHL Europe, Germany
5. MBA Future Entrepreneur Scholarship, HHL Europe, Germany
6. MBA Women in Business Scholarship, HHL Europe, Germany
7. Bachelor in International Business Scholarships, IÉSEG School of Management, France
8. International MBA Scholarships, IÉSEG School of Management, France
9. MSc Scholarships in Big Data Analytics for Business, IÉSEG School of Management, France

10. MSc in International Business Negotiation Scholarships, IÉSEG School of Management, France
11. MSc in Investment Banking & Capital Markets Scholarships, IÉSEG School of Management, France
12. Master of Science in Finance Scholarships, IÉSEG School of Management, France
13. Executive Dean's Scholarship, Faculty of Science & Technology, Bournemouth University, UK
14. MSc in International Accounting, Audit & Control Scholarships, IÉSEG School of Management, France
15. MSc in Business Analysis and Consulting Scholarships, IÉSEG School of Management, France
16. MSc in Digital Marketing & CRM Scholarships, IÉSEG School of Management, France
17. MSc Scholarships in Fashion Management, IÉSEG School of Management, France
18. MSc Scholarships in International Business, IÉSEG School of Management, France
19. Radboud Faculty of Arts Study Funds, Radboud University, Netherlands
20. Faculty of Science Scholarships, University of Sheffield, UK
21. Executive Dean's Scholarship, Department of Tourism and Hospitality, Bournemouth University, UK
22. Executive Dean's Scholarship, Faculty of Media & Communication, Bournemouth University, UK
23. Executive Dean's Scholarship, Faculty of Management, Bournemouth University, UK
24. Executive Dean's Scholarship, Faculty of Health & Social Sciences, Bournemouth University, UK
25. Master of Public Health Scholarship, Glasgow Caledonian University, UK
26. Beasiswa Paragon - Institut Pertanian Bogor (IPB)
27. Cinematography Scholarships, Griffith University, Australia
28. MBA Scholarships, University of Glasgow, UK
29. International Fellowships, ADA University, Azerbaijan
30. International Masters Scholarship, Edith Cowan University, Australia
31. International Fashion Academy Scholarships, Paris
32. International Postgraduate Taught Scholarship, University of Sheffield, UK
33. International Baccalaureate Undergraduate Merit Scholarship, University of Sheffield, UK
34. International Postgraduate Taught Merit Scholarship, University of Sheffield, UK
35. University of Adelaide Global Academic Excellence Scholarship, Australia
36. International Excellence Scholarships, University of Reading, UK
37. International Undergraduate Merit Scholarship, University of Sheffield, UK
38. International Undergraduate Scholarship, University of Sheffield, UK
39. Global Undergraduate Exchange Program, American Indonesian Exchange Foundation, USA
40. Orange Tulip Scholarship (OTS), University of Twente, Netherlands
41. Orange Tulip Scholarships, Tio University of Applied Sciences, Netherlands
42. Orange Tulip Scholarships, Wittenborg University of Applied Sciences, Netherlands
43. Orange Tulip Scholarships, Tilburg University, Netherlands
44. Undergraduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST)
45. Orange Tulip Scholarships, TIAS School for Business and Society, Netherlands
46. Orange Tulip Scholarships, The Hague University of Applied Sciences, Netherlands
47. Deakin Vice-Chancellor's International Scholarship, Deakin University, Australia
48. Curtin International Scholarships - CRL Merit Scholarship, Curtin University, Australia
49. Orange Tulip Scholarships, Saxion University of Applied Sciences, Netherlands
50. Orange Tulip Scholarships, NHL Stenden University of Applied Sciences, Netherlands
51. Orange Tulip Scholarship Indonesia, Maastricht University, Netherlands
52. Orange Tulip Scholarships, Institute of Social Studies, Erasmus University Rotterdam, Netherlands
53. Orange Tulip Scholarships, Institute for Housing and Urban Development Studies, Erasmus University Rotterdam, Netherlands
54. Orange Tulip Scholarships, Hanze University of Applied Sciences, Netherlands
55. MBA Scholarships, Brunel University, UK
56. Orange Tulip Scholarships, HAN University of Applied Sciences, Netherlands
57. Orange Tulip Scholarships, Breda University of Applied Sciences, Netherlands
58. Orange Tulip Scholarships, DAS Theatre, Amsterdam University of the Arts, Netherlands
59. Orange Tulip Scholarships, Rotterdam School of Management, Erasmus University, Netherlands
60. Orange Tulip Scholarships, Radboud University, Netherlands
61. Orange Tulip Scholarships, Vrije Universiteit Amsterdam, Netherlands
62. Orange Tulip Scholarships, Eindhoven University of Technology, Netherlands
63. Orange Tulip Scholarships, University of Amsterdam, Netherlands
64. PhD Studentship in Light-Matter Interactions, University of Southampton, UK
65. Western Sydney International Bursary, Western Sydney University, Australia
66. University of Adelaide Global Leaders Scholarships, Australia
67. Global KU Study Abroad Scholarship, Korea University, South Korea
68. MS/PhD Fellowships, King Abdullah University of Science and Technology (KAUST), Saudi Arabia
69. LLM Scholarships, Queen Mary University of London, UK
70. International Doctoral Scholarships in Engineering, Kochi University of Technology, Japan
71. The Sadako Ogata Scholarship, University of London, UK
72. International Postgraduate Coursework Full Tuition Scholarship, University of Technology Sydney, Australia
73. Scholarship for International Baccalaureate (IB) Graduates, University of Technology Sydney, Australia
74. International Undergraduate Full Tuition Scholarship, University of Technology Sydney, Australia
75. QuTech Scholarship, Delft University of Technology, Netherlands

76. TU Delft Excellence Scholarships, Netherlands
77. Brunel International Scholarship, Brunel University London, UK
78. Social Sciences Graduate School Research PhD Studentships, University of East Anglia, UK
79. PhD Scholarships in Economics, CERGE-EI, Czech Republic
80. Master Scholarships, Chulabhorn Graduate Institute & ASEAN Foundation, Thailand
81. Future of Humanity Institute Scholarships, University of Oxford, UK
82. Winton Scholarships, University of Cambridge, UK
83. Alan Musgrave Scholarship in Philosophy, University of Otago, New Zealand
84. Eiffel Scholarships for Master & PhD, France
85. Indonesia Global Leaders Scholarship, University of Queensland, Australia
86. Nieman-Berkman Klein Fellowship in Journalism Innovation, Harvard University, USA
87. School of Philosophy, Psychology and Language Sciences PhD Scholarships, University of Edinburgh, UK
88. MBA Academic Performance Scholarship, Coventry University, UK
89. Vice-Chancellor's Awards & Cambridge International Scholarships, University of Cambridge, UK
90. MSc in Engineering Scholarships, University of Southern Denmark
91. The Karolinska Institutet Global Master's Scholarships, Sweden
92. Mathematics Global Scholarships, University of Waterloo, Canada
93. Postgraduate Research Studentships in Social Sciences, University of East Anglia, UK
94. Robin & Nadine Wells Scholarship, St Cross College, University of Oxford, UK
95. St Cross Worldwide Scholarships, St Cross College, University of Oxford, UK
96. MPhil Scholarship in Humanities and Social Sciences, St Cross College, University of Oxford, UK
97. H el ene La Rue Scholarship in Music, University of Oxford, UK
98. Graduate Scholarship in Archaeology, St Cross College, University of Oxford, UK
99. ANU Sport and Recreation Association Scholarship, Australian National University, Australia
100. Honours Scholarship, Australian National University, Australia
101. PBSA ANU Partnership - Spotless Scholarship, Australian National University, Australia
102. Tall Foundation Scholarship in Classics, Australian National University, Australia
103. Research School of Economics Neil Vousden Memorial Scholarship, Australian National University, Australia
104. ANU College of Arts and Social Sciences Academic Excellence Scholarship, Australian National University, Australia
105. Australian National University Excellence Scholarship
106. Adlerbert Study Scholarships, Chalmers University of Technology, Sweden
107. IPOET Scholarships, Chalmers University of Technology, Sweden
108. Avancez Scholarship, Chalmers University of Technology, Sweden
109. MBA Scholarships, New York University, USA
110. Excellence Scholarship & Opportunity Programme (ESOP), ETH Zurich, Switzerland
111. Amelia Earhart Fellowship for Women in Aerospace Science, Zonta International, USA
112. RMIT International Excellence Scholarship, RMIT University, Australia
113. Faculty of Health and Applied Sciences Dean's Scholarships, University of the West of England, UK
114. Faculty of Health and Applied Sciences MSc Scholarships, University of the West of England, UK
115. International Undergraduate Excellence Scholarship, Bond University, Australia
116. Bond University Postgraduate Research Scholarship (BUPRS), Australia
117. Research Training Program (RTP) Stipend Scholarship, Bond University, Australia
118. Hong Kong PhD Fellowship Scheme (HKPFS), University of Hong Kong
119. Environmental Health Sciences PhD Scholarships (QAEHS), University of Queensland, Australia
120. Justus & Louise van Effen Excellence Scholarships, Delft University of Technology, Netherlands
121. Holland Scholarship, Delft University of Technology, Netherlands
122. Durham Doctoral Studentships, Durham University, UK
123. President's PhD Scholarships, Imperial College London, UK
124. Quentin Bryce Law Doctoral Scholarship, University of Technology Sydney, Australia
125. General Academic Scholarships, University of Bridgeport, USA
126. Master Scholarships for International Students,  rebro University, Sweden
127. Departmental Taught Masters Scholarships, University of York, UK
128. City National Bank Music Business Scholarship, Musicians Institute, USA
129. S oderberg Scholarship, Lund University, Sweden
130. Adelaide Scholarships International (ASI), University of Adelaide, Australia
131. University of Reading International Research Studentships, UK
132. Chancellor's International Scholarships, University of Warwick, UK
133. Dean's Scholarship for Women and Management, Melbourne Business School, Australia
134. Dean's International Management Scholarship, Melbourne Business School, Australia
135. Master Scholarships, Malm o University, Sweden
136. Utrecht Excellence Scholarships, Utrecht University, Netherlands
137. UQ Graduate School Scholarships (UQGSS), University of Queensland, Australia
138. Holland Scholarship, Utrecht University, Netherlands
139. Uppsala University President's Club Scholarship, Sweden
140. Uppsala University IPK Scholarships, Sweden
141. Newcastle University Overseas Research Scholarship (NUORS), UK

142. Vice-Chancellor's Excellence Scholarships Postgraduate, Newcastle University, UK
143. Vice Chancellor's International Scholarships, Newcastle University, UK
144. David Goldman PhD Scholarship, Newcastle University, UK
145. Master Scholarships, Perimeter Institute for Theoretical Physics, Canada
146. Radboud University Medical Center Study Fund, Netherlands
147. Space Studies Scholarships, International Space University, France
148. Nanyang President's Graduate Scholarships (NPGS), Nanyang Technological University (NTU), Singapore
149. UC College of Engineering International Scholarship, University of Canterbury, New Zealand
150. Kent Business School Hardship Bursary, University of Kent, UK
151. Merit International Postgraduate Scholarship, Edith Cowan University, Australia
152. Amandus H Lundqvist Scholarship Program, Eindhoven University of Technology, Netherlands
153. Postgraduate Global Excellence Scholarships, University of Exeter, UK
154. Fully-Funded Doctoral Studentships in Computer Science, University of Oxford, UK
155. International Master in Security, Intelligence and Strategic Studies (IMSISS), Europe
156. Full Fee Scholarships, University of Adelaide, Australia
157. UTS Science International Undergraduate Scholarship for Excellence, University of Technology Sydney, Australia
158. Civil and Structural Engineering PhD Scholarship, Curtin University, Australia
159. International Excellence Scholarship, Anglia Ruskin University, UK
160. University of Adelaide Matching Scholarships, Australia
161. Melodic Soloing Scholarship, Musicians Institute, USA
162. Joe Bonamassa Blues Guitar Scholarship, Musicians Institute, USA
163. 2019 DJ Program Scholarship, Musicians Institute, USA
164. Evans Drum Scholarship, Musicians Institute, USA
165. Graduate Research Scholarships, University of Melbourne, Australia
166. MBS International Student Study Award, Massey University, New Zealand
167. University of Adelaide Global Citizens Scholarship, Australia
168. DAAD Scholarships in Fine Art, Design, Visual Communication and Film, Germany
169. University of Saskatchewan International Excellence Awards, Canada
170. College of Humanities and Social Sciences International Excellence Scholarship, Massey University, New Zealand
171. Tourism Development & Culture (Erasmus Mundus Joint Masters) Scholarships, Europe
172. Holland Scholarship, University of Twente, Netherlands
173. Postgraduate Research Studentships, Queen Mary University of London, UK
174. University of Twente Scholarship (UTS), Netherlands
175. Eira Francis Davies Scholarship, Swansea University, UK
176. Curtin International Merit Scholarships, Curtin University, Australia
177. ASEAN Graduate Scholarship, Nanyang Technological University, Singapore
178. Fulbrights Grants for Indonesian Lecturers - MA, American Indonesian Exchange Foundation, USA
179. Fulbrights Grants for Indonesian Lecturers - PhD, American Indonesian Exchange Foundation, USA
180. Undergraduate Postgraduate Bursary, Western Sydney University, Australia
181. Postgraduate Scholarships, Western Sydney University, Australia
182. Undergraduate Scholarships, Western Sydney University, Australia
183. Fulbright Distinguished Awards in Teaching Program for International Teachers (Fulbright DAI), USA
184. Vice-Chancellor's International Scholarship, Macquarie University, Australia
185. Fulbright PhD Scholarships, American Indonesian Exchange Foundation (AMINEF), USA
186. Fulbright Master Scholarships, American Indonesian Exchange Foundation (AMINEF), USA
187. ANU College of Engineering & Computer Science International Postgraduate Excellence Scholarship, Australia
188. Masters in Marketing International Excellence Scholarships, University of Leeds, UK
189. Masters in International Business International Excellence Scholarships, University of Leeds, UK
190. Masters in Human Resource Management International Excellence Scholarships, University of Leeds, UK
191. Masters in Management Consulting International Excellence Scholarship, University of Leeds, UK
192. Masters in Organizational Psychology / Business Psychology International Excellence Scholarship, University of Leeds, UK
193. Masters in Information Systems and Information Management International Excellence Scholarship, University of Leeds, UK
194. Masters in Global Supply Chain Management International Excellence Scholarship, University of Leeds, UK
195. Masters in Global Strategy and Innovation Management International Excellence Scholarship, University of Leeds, UK
196. Masters in Enterprise and Entrepreneurship International Excellence Scholarship, University of Leeds, UK
197. Community College Initiative Program, American Indonesian Exchange Foundation, USA
198. Masters in Business Analytics and Decision Sciences International Excellence Scholarship, University of Leeds, UK
199. Masters in Management International Excellence Scholarship, University of Leeds, UK
200. Masters in Accounting and Finance International Excellence Scholarship, University of Leeds, UK
201. Dean's International Excellence Scholarship, University of Leeds, UK

202. Academic Excellence Scholarship, Bournemouth University, UK

Last updated: 26 August 2018