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## PhD Studentship in Uncertainty Quantification Project, the Institute of Petroleum Engineering, Heriot-Watt University, Edinburgh, UK

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PhD Studentship in Uncertainty Quantification project

Subject: PhD Studentship at the Institute of Petroleum Engineering, Heriot-Watt University, Edinburgh

Geological realism in reservoir models: uncertain data integration

A PhD studentship is available in the Institute of Petroleum Engineering at Heriot-Watt University, to work on an industry funded Uncertainty Quantification project.

Improvement of geological realism in reservoir models is one of the ultimate goals in assessing uncertainty of production predictions. One of the ways to characterize realistic geology is to describe model components and relations in a form of prior distributions, which are based on relevant geological knowledge and data. For instance, a relation between curvature and widths for fluvial channels is supported by observation of contemporary river systems.

The PhD work will be focused on integration of geo-data from different fields – geology, hydrology, paleo-geology, geography – into sub-surface reservoir models. More efficient use of relevant data as informative priors aims to improve realism and prediction capability of the petroleum reservoir forecasting model. Uncertain forecast can be improved by using realistic quantification of model unknowns described by statistical priors, elicited from geological prior knowledge. Use of informative prior distribution in prediction modelling requires self-consistent description of complex dependencies hidden in data, which are subject to vast uncertainties and usually cannot be well represented analytically.

The candidate will join a dynamic and diverse team of post-docs and PhDs lead by Prof. Mike Christie. The research carried out by the team addresses aspects of uncertainty quantification including stochastic optimisation methods, geostatistics, machine learning, and employs high-level scientific computation (including a 84 node Linux cluster). The research is funded by a consortium of oil companies, and the skills acquired in while studying for the PhD are likely to be applicable to a wide range of areas, including the oil industry.

### Desired skills:

The successful candidate must have a degree in geology, strong numeric geological knowledge and understanding of natural systems behaviour and data acquisition. Experience in subsurface geology, paleo-geology, hydro-geology and ground water modelling will be beneficial. Knowledge of computational methods and petroleum engineering is desirable.

To apply send a CV to Dr V Demyanov, [vasily.demyanov@jpet.hw.ac.uk](mailto:vasily.demyanov@jpet.hw.ac.uk)

Closing date: **31st July 2009.**

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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

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