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## PhD Research Fellowships in Energy Informatics, University of Oslo, Norway

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**The University of Oslo** is Norway's oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

The Department of Informatics (IFI) is one of nine departments belonging to the Faculty of Mathematics and Natural Sciences at the University of Oslo. IFI is Norway's largest university department for general education and research in Computer Science and related topics. The Department has near 950 students on bachelor level, near 450 master students, and over 180 PhD students. The overall staff of the Department is close to 250 employees, about 200 of these are full time positions. The full time scientific staff is 60, mostly Full/Associate Professors.

### PhD Research Fellowships in Energy Informatics, 2 positions

Two PhD Research fellows are available at Department of Informatics, Faculty of Mathematics and Natural Sciences, University of Oslo, Norway. The fellowships are for a period of 3 years. Starting date preferably no later than 01.02.2018.

No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo.

### Project description:

The two research fellows will be working in the project SmartNEM ("Smart Community Neighborhood – driven by energy informatics") funded by the Research Council of Norway. SmartNEM is a joint project with University of Stavanger, Norway. The project will employ a total of seven PhD scholars of which three will be employed by University of Oslo UiO). One of the PhD scholars supported by the SmartNEM project will be supervised in collaboration with the Faculty of Computer Sciences at the Østfold University College in Halden and the Norwegian Centre of Expertise Smart Energy Markets (NCESmart). An industrial advisory board with members including Statnett (the Norwegian TSO), Lyse Energy, DNV-GL and the NCE Smart cluster will offer industrial guidance to the PhD scholars.

The vision of the research is to exploit state-of-the-art ICT methods, tools and techniques for the future sustainable energy systems. We have particular interest in the following technologies for efficient and secure energy systems: fog computing, machine/deep learning, data analytics, blockchain and software defined principles. We will develop new models and algorithms to provide the power grid operators with intelligent energy management with privacy preservation in local regions.

We have defined the following topics for the two PhD fellows.

Topic 1: Secure and privacy-preserved system for smart home and neighborhood. We will identify the new cyber security and privacy challenges in the smart neighborhood. Then, we will propose new solutions to defend against cyber attacks. Blockchain can be a potential technology to ensure secure peer-to-peer energy exchange in the local neighborhood.

Topic 2: Machine learning and deep learning for energy forecasting. Precise forecasting is very important for the stability of the future energy systems. We will study predictive analytics techniques for power stability, including regression, neural networks and other machine learning approaches for real-time and historical analytics. In addition, the renewable energy forecasting will be an important problem in this topic. This PhD project will be done in collaboration with Østfold University College and Smart Innovation Norway in Halden, Norway.

Please indicate in the application which of the positions you would like to be considered for, and in priority order if more than one.

For further information about our energy informatics activities, see:

<https://www.mn.uio.no/ifi/english/research/groups/nd/energy-informatics/>

### **Requirements and qualifications:**

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and are expected to be in the upper segment of their class with respect to academic credentials.

Applicants must hold a Master's degree or equivalent in computer science or electrical engineering, or control engineering with excellent results. Good knowledge in programming and mathematics is preferable. Applicants must also be able to demonstrate interest in scientific research. The evaluation also considers personal drive and organizational skills.

For the PhD positions, the purpose of the fellowship is research training leading to the successful completion of a PhD degree.

The fellowship requires admission to the PhD programme at the Faculty of Mathematics and Natural Sciences. The application to the PhD programme must be submitted to the department no later than two months after taking up the position. For more information, see:

A good command of English is required

Doctoral degree: PhD in Mathematics and Natural Sciences

Doctoral degree and PhD

### **We offer:**

- Salary NOK 436 900 – 490 900 per year, depending on qualifications and seniority.
- Attractive welfare benefits and a generous pension agreement, in addition to Oslo's family-friendly environment with its rich opportunities for culture and outdoor activities.

### **The application must include:**

- Application letter
- CV (summarizing education, positions and academic work – scientific publications)
- Copies of educational certificates, transcript of records and letters of recommendation
- List of publications and academic work that the applicant wishes to be considered by the evaluation committee
- Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

Foreign applicants are advised to attach an explanation of their University's grading system. Please remember that all documents should be in English or a Scandinavian language.

### **Formal regulations:**

Please see the guidelines and regulations for appointments to Research Fellowships at the University of Oslo.

According to the Norwegian Freedom and Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

UiO has an agreement for all employees, aiming to secure rights to research results a.o.

The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

### **Contact information:**

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Professor Yan Zhang, Department of Informatics, UiO. [yanzhang@ifi.uio.no](mailto:yanzhang@ifi.uio.no)

1. Full Tuition Fee LLM Scholarships, University of Warwick, UK
2. Fully Funded Scholarships – Qatar University
3. Fully Funded Scholarships, Taiwan
4. Fully Funded Scholarships, Bond University, Australia
5. Fully Funded Art Major Asian plus Scholarships, Korea National University of Arts, South Korea
6. Full Funded VLIR-ICP Master Scholarships, KU Leuven, Belgium
7. Fully Funded Undergraduate Scholarships, Singapore Management University
8. Fully Funded Fulbright Distinguished Awards in Teaching Program, USA
9. Fully Funded Scholarships, Sun Moon University, South Korea
10. Fully Funded Scholarships, Pukyong National University, South Korea
11. Fully Funded Scholarships, Yonsei University, South Korea
12. Fully Funded Scholarships, Korea Advanced Institute of Science and Technology, South Korea
13. Fully Funded Scholarships, Yeungnam University, South Korea
14. Fully Funded Scholarships, University of Seoul, South Korea
15. Fully Funded Scholarships, Ulsan National Institute of Science and Technology, South Korea
16. Fully Funded Scholarships, Sungkyunkwan University, South Korea
17. Fully Funded Scholarships, Sunchon National University, South Korea
18. Fully Funded Scholarships, Sogang University, South Korea
19. Fully Funded Scholarships, Seoul National University of Science and Technology, South Korea
20. Fully Funded Scholarships, Seoul National University, South Korea
21. Fully Funded Scholarships, Pusan National University, South Korea
22. Fully Funded Scholarships, Pohang University of Science and Technology, South Korea
23. Fully Funded Scholarships, Kyungpook National University, South Korea
24. Fully Funded Scholarships, Kyung Hee University, South Korea
25. Fully Funded Scholarships, University of New England, Australia
26. Fully Funded Scholarships, Kunsan National University, South Korea
27. Fully Funded Scholarships, Kookmin University, South Korea
28. Fully Funded Scholarships, Kangwon National University, South Korea
29. Fully Funded Scholarships, Jeonbuk National University, South Korea
30. Fully Funded Scholarships, Hoseo University, South Korea
31. Fully Funded Scholarships, Hanyang University, South Korea
32. Fully Funded Scholarships, Gyeongsang National University, South Korea
33. Fully Funded Scholarships, Ewha Womans University, South Korea
34. Fully Funded Scholarships, Dongseo University, South Korea
35. Fully Funded Scholarships, Dongguk University, South Korea
36. Fully Funded Scholarships, Dankook University, South Korea
37. Fully Funded Scholarships, Chungnam National University, South Korea
38. Fully Funded Scholarships, Chung-Ang University, South Korea
39. Fully Funded Scholarships, Chonnam National University, South Korea
40. Fully Funded Scholarships, Ajou University, South Korea
41. Fully Funded Graduate Scholarships for International Students, South Korea
42. Fully Funded Fulbright Foreign Language Teaching Assistant, USA
43. Fully Funded Scholarships, CERGE-EI, Czech Republic
44. Full Tuition Fee Scholarships for Female Students from Developing Countries, Swansea University, UK
45. Diploma & Undergraduate Scholarships – Van Deventer-Maas Indonesia
46. Master Scholarships, University of Twente, Netherlands
47. Fully Funded Sport Management Scholarships, Seoul National University, South Korea
48. Fully Funded ADB JSP Scholarships, Asian Institute of Technology, Thailand
49. Undergraduate Maths Scholarships for International Students, University of Edinburgh, UK
50. Fully Funded Scholarships in Singapore
51. Tuition + Living Allowance Scholarships, University of Waikato, New Zealand
52. Fully Funded Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
53. Fully Funded Scholarships, Okinawa Institute of Science and Technology, Japan
54. Master Scholarships, Faculty of Medicine, Imperial College London, UK
55. Fully Funded Australia Awards Scholarships
56. Fully Funded GCE A Level Scholarships for Indonesian Students, Singapore
57. Fully Funded Graduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST), South Korea
58. Full Tuition Fee Fashion Scholarships, International Fashion Academy, France
59. Fully Funded Undergraduate Scholarships, Singapore
60. Fully Funded Master Scholarships, Kyoto University, Japan
61. Fully Funded Scholarships, Kochi University of Technology, Japan
62. Fully Funded Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE

63. Fully Funded Scholarships in Astronomy, University of Cambridge, UK
  64. Fully Funded Scholarships – International University of Japan
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1. Beasiswa Youth Ekselensia Scholarship - Lembaga Pengembangan Insani Dompot Dhuafa
2. Art Major Asian plus Scholarship, Korea National University of Arts
3. Beasiswa Hyundai Motor Chung Mong-Koo Foundation - Universitas Gadjah Mada
4. Nailekhanim Foundation Scholarship, Khazar University, Azerbaijan
5. ASEAN Undergraduate Scholarship, Singapore Management University, Singapore
6. Fulbright Foreign Language Teaching Assistant (FLTA), American Indonesian Exchange Foundation, USA
7. Eira Francis Davies Scholarship, Swansea University, UK
8. Beasiswa Mahasiswa - Pemerintah Kota Pekanbaru
9. Beasiswa Master 2, Prancis
10. Beasiswa Tematik, Prancis
11. Beasiswa Kartini Sains, Prancis
12. Beasiswa France Excellence S2, Prancis
13. Beasiswa France Excellence D3 / S1, Prancis
14. University of Waikato Doctoral Scholarship, New Zealand
15. Asian Development Bank - Japan Scholarship Program (ADB-JSP), Asian Institute of Technology, Thailand
16. University of Twente Scholarship (UTS), Netherlands
17. Australian Government Research Training Program (RTP) Scholarship, Bond University, Australia
18. Australia Awards Scholarships
19. Faculty of Medicine Dean Master Scholarships, Imperial College London, UK
20. President's PhD Scholarships, Imperial College London, UK
21. International Graduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST)
22. Asian Future Leaders Scholarship Program, Kyoto University, Japan
23. International Fashion Academy Scholarships, Paris
24. Beasiswa Bantuan Penelitian - Bank Indonesia Institute
25. Special Scholarship Program (SSP), Kochi University of Technology, Japan
26. Beasiswa Mahasiswa Berprestasi Non Akademik - Provinsi Kalimantan Barat
27. Beasiswa Ajinomoto, Jepang
28. Future Leader Scholarship, LASALLE College of the Arts, Singapore
29. Beasiswa Talenta Atlet, Seni dan Sains - Universitas Muhammadiyah Yogyakarta (UMY)
30. Beasiswa Kader Unggulan Muhammadiyah (KAUM) - Universitas Muhammadiyah Yogyakarta (UMY)
31. Beasiswa Hafizh Muhammadiyah - Universitas Muhammadiyah Yogyakarta (UMY)
32. Beasiswa Dokter dan Dokter Gigi Muhammadiyah - Universitas Muhammadiyah Yogyakarta (UMY)
33. International Higher Education Scholarship Program, Taiwan
34. Talent Scholarship - Qatar University
35. PhD Scholarships in Economics, CERGE-EI, Czech Republic
36. Fulbright Distinguished Awards in Teaching Program for International Teachers (Fulbright DAI), USA
37. International Students Scholarship - Qatar University
38. Beasiswa Jalur Prestasi, D3 Teknologi Pengolahan Kelapa Sawit, Institut Teknologi dan Sains Bandung
39. Beasiswa SMART Mills - PT Sinar Mas Agro Resources and Technology Tbk
40. Beasiswa SMART Agro - PT Sinar Mas Agro Resources and Technology Tbk
41. Vice Chancellor's International Excellence Scholarship, University of Waikato, New Zealand
42. Boustany Astronomy Scholarship, University of Cambridge, UK
43. Beasiswa Van Deventer-Maas Indonesia
44. Boustany Cambridge Pembroke Scholarship in Philosophy, University of Cambridge, UK
45. Vice-Chancellor's International Scholarships Scheme, University of Sydney, Australia
46. Edinburgh Global Undergraduate Mathematics Scholarships, University of Edinburgh, UK
47. PhD Scholarships, Singapore International Graduate Award (SINGA)
48. Fulbright / Kennedy Center Fellowship, AMINEF, USA
49. PhD Scholarships, United Arab Emirates University, UAE
50. International Postgraduate Research Award (IPRA), University of New England, Australia
51. ASEAN Scholarships for Indonesia by Ministry of Education, Singapore
52. Master and PhD Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
53. Fully Funded PhD Scholarships, Okinawa Institute of Science and Technology Graduate University, Japan
54. LSHTM Fund Scholarship, London School of Hygiene & Tropical Medicine, UK
55. Dr Goh Keng Swee (GKS) Scholarship for Undergraduate Students, Singapore
56. Graduate Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE
57. Master & PhD Scholarships, Honjo International Scholarship Foundation, Japan
58. ASEAN Graduate Scholarship, Nanyang Technological University, Singapore
59. Bond University Postgraduate Research Scholarship (BUPRS), Australia
60. VLIR-ICP Master Scholarships, KU Leuven, Belgium