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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

1. Fully Funded Scholarships in Astronomy, University of Cambridge, UK
 2. Full Funded VLIR-ICP Master Scholarships, KU Leuven, Belgium
 3. Fully Funded Scholarships, King Abdullah University of Science and Technology, Saudi Arabia
 4. Fully Funded Master Scholarships, Chulabhorn Graduate Institute, Thailand
 5. Fully Funded Scholarships, University of New England, Australia
 6. Fully Funded Scholarships, Chonnam National University, South Korea
 7. Fully Funded Scholarships, Ajou University, South Korea
 8. Fully Funded Graduate Scholarships for International Students, South Korea
 9. Full Tuition Fee Scholarships for Female Students from Developing Countries, Swansea University, UK
 10. Master Scholarships, University of Twente, Netherlands
 11. Fully Funded Scholarships in Singapore
 12. Tuition + Living Allowance Scholarships, University of Waikato, New Zealand
 13. Fully Funded Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
 14. Master Scholarships, Faculty of Medicine, Imperial College London, UK
 15. Fully Funded Australia Awards Scholarships
 16. Fully Funded GCE A Level Scholarships for Indonesian Students, Singapore
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1. YSEALI Academic Fellowship, USA
 2. Beasiswa Riset Tugas Akhir - Pusat Studi Muhammadiyah
 3. Beasiswa Pemerintah Provinsi Kepulauan Riau
 4. Beasiswa SDM Sawit - Kementerian Pertanian
 5. Beasiswa FULL + Biaya Hidup dari Pemerintah Jepang (MONBUKAGAKUSHO) untuk Program Research Student
 6. Beasiswa Adaro Foundation - Universitas Gadjah Mada (UGM)
 7. Master & PhD Scholarships, Honjo International Scholarship Foundation, Japan
 8. Beasiswa Putra-Putri Transmigran Berprestasi - Universitas Gadjah Mada
 9. VLIR-ICP Master Scholarships, KU Leuven, Belgium
 10. Nailekhanim Foundation Scholarship, Khazar University, Azerbaijan
 11. Eira Francis Davies Scholarship, Swansea University, UK
 12. Beasiswa Master 2, Prancis
 13. Beasiswa Tematik, Prancis
 14. Beasiswa Kartini Sains, Prancis
 15. Beasiswa France Excellence S2, Prancis
 16. Beasiswa France Excellence D3 / S1, Prancis
 17. University of Waikato Doctoral Scholarship, New Zealand
 18. University of Twente Scholarship (UTS), Netherlands
 19. Australia Awards Scholarships
 20. Faculty of Medicine Dean Master Scholarships, Imperial College London, UK
 21. Beasiswa Bantuan Penelitian - Bank Indonesia Institute
 22. Beasiswa Mahasiswa Berprestasi Non Akademik - Provinsi Kalimantan Barat
 23. Future Leader Scholarship, LASALLE College of the Arts, Singapore
 24. Beasiswa Talenta Atlet, Seni dan Sains - Universitas Muhammadiyah Yogyakarta (UMY)
 25. Beasiswa Kader Unggulan Muhammadiyah (KAUM) - Universitas Muhammadiyah Yogyakarta (UMY)
 26. Beasiswa Dokter dan Dokter Gigi Muhammadiyah - Universitas Muhammadiyah Yogyakarta (UMY)
 27. Vice Chancellor's International Excellence Scholarship, University of Waikato, New Zealand
 28. Boustany Astronomy Scholarship, University of Cambridge, UK
 29. Vice-Chancellor's International Scholarships Scheme, University of Sydney, Australia
 30. PhD Scholarships, Singapore International Graduate Award (SINGA)
 31. International Postgraduate Research Award (IPRA), University of New England, Australia
 32. ASEAN Scholarships for Indonesia by Ministry of Education, Singapore
 33. Master and PhD Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
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