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by Ester Maria Loi

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Job Description:

Job title: 2 PhD positions in ENGINEERING

Name of Organisation: NTNU Centre for Autonomous Marine Operations and Systems (NTNU AMOS) - NTNU Norwegian University of Science and Technology

Country: Norway

City: Trondheim

Main research fields: Engineering

Application deadline: 01/05/2018 23:00 - Europe/Brussels

Required Education:

Master degree in Marine Technology, Engineering Cybernetics, Control Systems, Electrical Engineering, RAMS, or other relevant disciplines.

Language skills:

Excellent English skills, written and spoken, are required.

Applicants from non-English speak countries outside Europe must present an official language test report. The acceptable tests are TOEFL, IELTS, and Cambridge Certificate in Advanced English (CAE) or Cambridge Certificate of Proficiency in English (CPE). Minimum scores are:

- TOEFL: 600 / writing 4.5 (paper-based test), 92 / writing 22 (internet-based test);
- IELTS: 6.5, with no section lower than 5.5 (only Academic IELTS test accepted);
- CAE/CPE: grade B or A.

Application details:

Topics:

PhD 1: Risk modelling for supervisory risk control of autonomous systems.

PhD 2: Verification by digital twin based on models and machine learning.

Job description:

NTNU AMOS' vision is to establish a world-leading research centre for autonomous marine operations and systems. Cutting-edge inter-disciplinary research will provide the necessary bridge to realize high levels of autonomy for ships and ocean structures, unmanned vehicles, and marine operations and to address the challenges associated with greener and safer maritime transport, monitoring and surveillance of the coast and oceans, offshore renewable energy, and oil and gas exploration and production in deep waters and Arctic waters. Two new research projects, UNLOCK and ORCAS, constitute a new research area in NTNU AMOS focused on risk modelling and supervisory risk control, bridging risk management with control systems engineering.

Job starting date: Start-up date may be discussed, but tentatively August 2018.

Duration of job: The position is of 3 years duration

Status: Full time

Salary: PhD Candidates are remunerated in code 1017, and are normally remunerated at gross NOK 436 900 before tax. There will be a 2 % deduction to the Norwegian Public Service Pension Fund from gross wage.

Additional requirements:

- Master students graduating summer 2018 can apply;
- Master students graduating by the end of June 2019 may apply for admission as integrated MSc and PhD;
- Academic results, publications, relevant specialization, work or research experience, personal qualifications, and motivation and a desire to make an impact on critical societal problems will be considered when evaluating the applicants.