

Sweden:Post Doc positions in Robotic

The Control Engineering Group (CEG) at the department of Computer Science and Electrical and Space Engineering at Luleå University of Technology, is now looking for two Post Docs contributing to our growing activities in the area of aerial and ground robotics.

The candidates will be part of a strong research team with intense expertise in the area of aerial field robotics

and will have the pleasure to work in multiple European and National research projects in Robotics, while

contributing to the vision and goals of the group. The contract for this position will be one year, with possibility to

be extended up to 2 years in total. Among the projects that the candidates will work is the Horizon 2020 project

SIMS - <http://www.simsmining.eu/> and the Horizon 2020 project Compinnova - <http://compinnova.eu/> .

Subject Description

Control Engineering comprises the analysis, design, optimisation and implementation of autonomous control

systems.

Research Topic

Characteristic research topics will focus on, but not be limited to, the following areas:

- Vision for Robotics
- Multiple camera views cooperative perception for UAVs
- Collaborative SLAM
- Cooperative task allocation, scheduling and planning
- Aerial cooperative visual Servoing
- Augmented Reality for robotics
- Event based task and motion control
- Safe and robust navigation for aerial and ground robots in featureless or reduced feature environments (e.g. mines)
- Visual Odometry on low light environments
- On real time localization for aerial and ground robotic applications in mines
- Mechatronics
- Field Robotics demonstration of the corresponding research topics outcomes

Qualifications

To be qualified, the applicant must have a PhD in Automatic control or related subject. The research tasks

require a solid mathematical background with proven advanced experimental capabilities and excellent

programming skills (e.g. C++, ROS, etc.). The candidate should have a strong vision to evaluate and

demonstrate the research findings in real life operating conditions, in an approach to close the gap between pure

theory and experimental verifications.

Tasks

The candidate will perform research with substantial experimental components that should be published in peer-reviewed international journals and at major conferences. The position will include supervision of MSc students, teaching and supporting in acquiring funds for future research projects from research funding agencies/councils, EU framework program or industry. The candidate will need to represent the group in different contexts, both in Sweden and abroad, and hence have excellent skills in English.

Information

For further information please contact Professor George Nikolakopoulos +46 920 491298, geonik@ltu.se

Union representatives: SACO-Daina Dagis Daina.Dagis@ltu.se , +46 (0)920-493880, OFR- Lars Frisk,

Lars.Frisk@ltu.se +46 (0)920-491792

Luleå University of Technology is actively working on equality and diversity that contributes to a creative study- and work environment. The University's core values are based on respect, openness, cooperation, trust and responsibility.

In case of different interpretations of the English and Swedish versions of this announcement, the Swedish version takes precedence.

Tentative Submission Deadline : 11 December 2017

[Further Information](#)