

## DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

### Special Scientist - PhD Positions on Wireless Networked Control Systems

Title: Special Scientists (Early-Stage Researchers for the ERC CoG MINERVA)  
No. of Positions: Three (3)  
Category: 1 year with an option for extension until the end of the 4-year PhD studies

#### PhD positions

Three (3) fully funded Special Scientist - PhD positions are available at the Distributed and Networked Control Systems (DNCS) Group, Department of Electrical and Computer Engineering, School of Engineering, University of Cyprus, under the supervision of Professor Themistoklis Charalambous. The Special Scientist position is fixed-term and filled initially for 1 year with an option for an extension until the end of 4-year PhD studies. It is a full-time position available from March 2024.

#### Subject

The Special Scientist - PhD positions are part of the highly prestigious ERC Consolidator Grant MINERVA (eMergING coopERatiVe Autonomous systems - information for control and estimation) and include fundamental and blue-sky research on Wireless Networked Control Systems (WNCSs). Such systems have a wide range of applications in a plethora of areas, such as flexible factory automation networks and autonomous systems, including Intelligent Transportation Systems (ITSs) and Robotics. As a result, we have been witnessing a great surge in both research and industrial interest towards the realization of such systems. That is why this project has external advisors from ABB Corporate Research. The Special Scientist - PhD candidate will be conducting research according to the needs of the research project for the development of control-aware communication strategies and communication-aware control strategies for WNCSs.

#### Candidate's profile

The applicant should have a B.Sc. (or equivalent) degree in Electrical and Computer Engineering, Computer Science, Mathematics, Physics or any other relevant field. An M.Sc. (or equivalent) degree will be considered as an advantage. The applicant should have a strong mathematical background with good knowledge in control theory, excellent programming skills and proficiency in English. Some knowledge in communication theory, information theory, signal processing, optimization, or other relevant field will be considered as an advantage.

#### Employment Terms

The positions are on a contract basis for one year with the possibility of renewal three years further. The maximum monthly gross salary is up to €2,250 depending on the qualifications and experience of the successful candidate (€0-€19,500 is non-taxable, €19,501-€28,000 has tax rate 20%, €28,001-€36,300 has tax rate 25%). There is no provision for 13th salary.

#### How to apply

Interested applicants should submit the following as a single PDF file:

- 1) Letter of motivation (maximum 1 page in 10pt font size)
- 2) CV with contact details
- 3) Degree certificates and Transcripts (if not in Greek or English, a certificated English translation)
- 4) Contact details of at least two referees

Please send your application by **Tuesday, 31st of October 2023** via email to the Director of DNCS Group, Professor Themistoklis Charalambous by email ([charalambous.themistoklis@ucy.ac.cy](mailto:charalambous.themistoklis@ucy.ac.cy)) with subject title: **MINERVA2023-PhD-2-Application**. For more information, please contact Professor Themistoklis Charalambous directly.

At least the best three candidates that satisfy the required qualifications, will be interviewed by a 3-member Committee. Candidates shall be informed of the result of their application by the relevant entity.

The University of Cyprus shall collect and process your personal data according to the provisions of the General Regulation on Personal Data 2016/679 (EU).

## **University of Cyprus**

With around 7,000 students, 113 laboratories, and 830 faculty and staff members, the University of Cyprus (UCY) is a young and rapidly expanding university (established in 1989). There are 7 faculties, 22 departments, and 16 research units /centers, covering a broad spectrum within the life, social, natural and engineering sciences. UCY is the biggest employer in Cyprus for young graduates and researchers. It currently employs about 750 young scientists using external research funds. We are seeking and attracting new qualified scientists and researchers because our constant aim is to be the largest employers' organization for young researchers in Cyprus. Currently, UCY is ranked #368 in QS World University Rankings 2024 and in the top 100 best young universities in the world according to the Times Higher Education's 'THE Young University Rankings' for universities less than 50 years old.

The Department of Electrical and Computer Engineering is a part of UCY's School of Engineering. Hosting a multitude of international and world-leading researchers, the Department of Electrical and Computer Engineering provides a truly inspirational ecosystem, where scientists and engineers from different fields interact and work together by crossing traditional boundaries to solve the most challenging scientific and technological problems, provide an excellent education and produce greater wellbeing for society in general. Its main research focus spans areas from control, robotics, autonomous systems, and power systems to photonics and communications. It has been ranked in the top 201-300 ECE Departments in the world according to the Shanghai Rankings.

The University of Cyprus (UCY) is committed to promoting inclusivity, diversity, and equality, as well as the elimination of all forms of discrimination in order to provide a fair, safe, and pleasant environment for the entire university community, where students and staff members will feel supported both in their professional and personal development, within and beyond their multiple identities. To this end, UCY seeks to create the necessary conditions that will encourage and respect diversity and ensure dignity both in the workplace and society at large. Moreover, UCY has adopted specific policies to promote equal opportunities, as well as respect and understanding of diversity, while it is committed to promoting and maintaining a working, teaching, and learning environment, free from any form of discrimination, whether direct or indirect.