

KIOS RESEARCH AND INNOVATION CENTER OF EXCELLENCE

Special Scientist for Research - Research Engineer

Title	: Special Scientist for Research (Research Engineer)
No. of Positions	: One (1)
Category	: Employment contract
Location	: University of Cyprus, Nicosia, Cyprus

The KIOS Research and Innovation Center of Excellence (www.kios.ucy.ac.cy) at the University of Cyprus announces one (1) Special Scientist for Research (**Research Engineer**) position, for full-time employment. The successful candidate will provide technical and research support on the project SYNECIS, which aims to develop and apply novel methodologies for the cyber-security of networked Critical Infrastructure Systems (CIS), focusing on Power and/or Water Distribution Systems.

Who we are:

The **KIOS Research and Innovation Center of Excellence** is the largest research center at the University of Cyprus and in 2017 was upgraded to a European Research Center of Excellence through the KIOS CoE Teaming project. Currently, the Center employs more than 180 people who are supported by externally funded research and innovation projects. The KIOS CoE operates in a diverse environment as an equal opportunity employer.

What we do:

KIOS provides an inspiring environment for carrying out top level research and innovation in the area of Information and Communication Technologies, with emphasis on the Monitoring, Control and Security of Critical Infrastructures. Such infrastructures include power and energy systems, water networks, transportation networks, telecommunication networks and emergency management and response. The Center instigates interdisciplinary interaction and promotes collaboration between industry, academia, and research organizations in high-tech areas of global importance.

Why work at KIOS:

You will have the opportunity to work on various high-profile projects with great impact on society and the environment, not only on a local but also on a global scale.

In KIOS we strive to create a multicultural, diverse and inclusive workplace and we strongly support the continuous personnel evolvment and development, both personally and professionally, to fulfill your long-term goals. We offer internal and external professional training, covering both technical and soft skills.

Job Details

The successful candidate is expected to:

- Investigate existing and/or develop software tools that realistically simulate the operation of Critical Infrastructure Systems (CIS) such as power and/or water systems. These tools should integrate CIS components, such as computing platforms (PLCs, SCADA), and communication networks (industrial and IoT).
- Develop software tools for simulating cyber-physical threats, such as cyber attacks and physical faults, and suitable defense mechanisms.
- Implement the developed safety and security tools on the KIOS CIS physical testbeds (power and/or water) and validate theoretical and simulation results.
- Attend project meetings for technical coordination of tasks.
- Prepare reports and project deliverables.
- Contribute to research results to be published in top international conferences and journals.

The required skills and expertise for the announced position include the following:

- Technical experience in modeling and simulation of critical infrastructure systems (power and/or water systems).
- Technical experience in programming PLC and IoT devices.
- Familiarity with control, fault-diagnosis, and cyber-security concepts.
- Proficiency in Python and MATLAB programming languages.

Profile of the ideal candidate:

- Attention to detail
- Problem solver
- Team player
- Reliable and trustworthy
- Able to adapt in a fast-paced dynamic environment
- Have good communication, organizational and self-management skills
- Very good knowledge of the English language

Qualifications and Experience:

- Bachelor's or Master's degree in Engineering or a related field from an accredited institution.
- Previous related experience will be considered an advantage.

Employment Terms:

The position is on a contract basis. Initially, a one-year contract will be offered, with a 6-month probation period, which is renewable based on performance. The gross monthly salary depends on the candidate's qualifications and experience and will be between €1500 - €2500. From this amount, employee contributions to the Cyprus government funds will be deducted. A 13th salary bonus is incorporated in the monthly salary. Maternity leave will be granted based on Maternity Protection Law 1997(N.100(I)/1997), and the existing amendment laws.

Application:

Interested candidates should submit the following items online through the link:

<https://applications.ucy.ac.cy/recruitment>

- Cover letter explaining the interest of the applicant in pursuing a career at the KIOS CoE, along

with employment availability date

- Short summary of prior work experiences, activities and accomplishments (can be combined with the cover letter) (2 pages maximum)
- A detailed curriculum vitae in English or in Greek
- Copies of transcripts of BSc/MSc or other degree(s)
- Copy of an English language certificate
- Identify at least two referees that can provide reference letters

The applications should be submitted as soon as possible, but not later than **Friday, 15th of March 2024, at 5 pm**. The evaluation of the applications will begin immediately. At least the best three candidates that satisfy the required qualifications will be interviewed by the Selection Committee. **Candidates will be informed of the result of their application by the KIOS CoE.**

Applicants need not be citizens of the Republic of Cyprus. Applicants should however ensure, before applying, that in case they are selected they will be residing in Cyprus on a full-time basis during the employment period.

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).

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.

For more information, please contact the KIOS Center of Excellence, by phone at +357 22893460 or via e-mail at kioshiring@ucy.ac.cy.