



KIOS RESEARCH AND INNOVATION CENTER OF EXCELLENCE UNIVERSITY OF CYPRUS

ERC Synergy Grant Research Positions

Title: Special Scientist for Research (Research Associate and/or Post-Doctoral Researcher)

No. of Positions: Two (2) positions

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 (<https://www.ucy.ac.cy>) announces two Special Scientist for Research (Research Associate, and/or Post-Doctoral Researcher) positions for full-time employment. The successful candidates will have the opportunity to conduct research with Prof. Marios Polycarpou towards the goals of the flagship ERC Synergy Grant entitled Water-Futures: Designing the Next Generation of Urban Drinking Water Systems (<https://waterfutures.eu>).

The required skills and expertise for the announced positions include **one or more** of the following areas:

- Fault Diagnosis
- Systems and Control Theory
- Optimization
- Machine Learning
- Smart Water Distribution Systems/Hydroinformatics

University of Cyprus

The University of Cyprus was officially founded in 1989 and started operating in Nicosia, the capital of Cyprus, in 1992. Within a short time, the University of Cyprus achieved international recognition through an impressive course of development.

KIOS Research and Innovation Center of Excellence (KIOS CoE)

The KIOS Research and Innovation Center of Excellence is the largest research center at the University of Cyprus and has recently been upgraded to a European Research Center of Excellence through the KIOS CoE Teaming project. Currently, the Center employs more than 200 people, who are supported by externally funded research and innovation projects.

KIOS provides an inspiring environment for conducting top-level research in the area of Information and Communication Technologies, with emphasis on the monitoring, control, and security of critical infrastructures, including power and energy systems, water networks, transportation networks, telecommunication networks, and emergency management and response. The Center fosters interdisciplinary interaction and promotes collaboration between industry, academia, and research organizations in high-tech areas of global importance. The KIOS CoE operates in a diverse environment as an equal opportunities employer.

ERC Synergy Grant Water-Futures (<https://waterfutures.eu>)

The project aims to develop a new theoretical framework for the allocation and development decisions on drinking water infrastructure systems, so that they are socially equitable, economically efficient, and environmentally resilient, as advocated by the UN Agenda 2030 Sustainable Development Goals. The framework will integrate real-time monitoring and control with long-term robustness and flexibility-based pathway methods and incorporate economic, social, ethical, and environmental considerations for sustainable transitioning of urban water systems under deep uncertainty with multiple possible futures. Our research team at the University of Cyprus focuses on the theory and application of monitoring and control in urban water distribution systems, while considering their evolution over time, unpredictable events such as contamination, device faults and failures, the evolution of risk in the system, and the presence of humans-in-the-loop.

Job details:

Short Description – Duties and Responsibilities:

The successful candidate will conduct fundamental and/or applied research in the area of Information and Communication Technologies, with emphasis on the monitoring, control, and security of water distribution systems. Depending on their qualifications and expertise, the successful candidate may also prepare reports and project deliverables, contribute to the preparation of research proposals, and assist in supervising undergraduate students. Furthermore, the successful candidate is expected to publish their research results in top international conferences and journals.

Profile of the ideal candidate:

The ideal candidate must be able to work independently and/or in a team in fundamental and/or applied research. They must be able to produce, publish, and present research results in high-quality conferences and journals, attend academic and/or other conferences and seminars for further personal and professional development, possibly assist in the preparation of research proposals, present the progress of their research periodically to KIOS personnel, and assist in the training, education, and dissemination activities of the KIOS CoE.

Qualifications and Experience:

- Bachelor's or/and Master's Degree in Electrical Engineering or Computer Engineering or or Computer Science, or Mathematics, or a related field from an accredited institution
- Doctorate degree or equivalent in the subject areas directly related to Information and Communication Technologies or Engineering and Technology, or other related field from an accredited institution

Employment Terms:

The position is on a contract basis. Initially, a one-year contract will be offered, which is renewable based on performance. The gross monthly salary depends on the candidate's qualifications and expertise and will range between €2400 - €3400. From this amount,

employee contributions to the Cyprus government funds will be deducted. The 13th salary bonus is incorporated into the monthly salary. Maternity leave will be granted based on the Social Insurance Laws from 1980 until 2012.

Application:

Interested candidates should apply online (<https://applications.ucy.ac.cy/recruitment>) submitting the following items:

- Cover letter that specifies their employment availability date
- Short description of their academic and research experience (can be combined with the cover letter) (1-page maximum)
- A detailed curriculum vitae in English
- Copies of transcripts of BSc/MSc/PhD degrees
- Copy of an English language certificate
- The names and contact information of at least two academics who can provide reference letters upon request

The applications should be submitted as soon as possible, but not later than **Friday, 20th June 2025**, at 17:00 CET. The evaluation of the applications will begin immediately after receipt. At least the best three candidates that satisfy the required qualifications will be interviewed by a 3-member 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 and submission of application implies acceptance of this condition.

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 Prof. Marios Polycarpou (mpolycar@ucy.ac.cy), or the KIOS Center of Excellence, by phone at +357 22893460 or via e-mail at kioshiring@ucy.ac.cy.