



Position: Post-Doctoral Research Fellow at the Resilient Society Department

Ref No.: ERA-PDR-RSD-59

Category: Full-time or part-time employment

Location: ERATOSTHENES Centre of Excellence, Limassol Cyprus

ERATOSTHENES CENTRE OF EXCELLENCE

ONE (1) POST-DOCTORAL RESEARCH FELLOW POSITION AT THE RESILIENT SOCIETY DEPARTMENT

ERATOSTHENES Centre of Excellence (www.eratosthenes.org.cy) of the Cyprus University of Technology (www.cut.ac.cy) invites applications for one (1) position at the Post-Doctoral Research Fellow level at the Resilient Society Department of the Centre. The position is open either on a full-time (100%) or part-time employment basis. The successful candidate will conduct research under multiple Eratosthenes Centre of Excellence projects funded by the European Union, including the flagship Excelsior H2020 Teaming project (<https://excelsior2020.eu/>) and the recently commenced Horizon Europe 'ENIGMA' and 'TRIQUETRA' projects, as well as other national and/or industry-funded projects.

The 'ENIGMA' project (<https://eu-enigma.eu/>) is funded under the HORIZON-CL2-2022-HERITAGE-01 call and shall achieve excellence in the protection of Cultural Heritage assets and artefacts from man-made threats by contributing to identification, traceability, and provenance research of Cultural assets, as well as by safeguarding and monitoring of endangered heritage sites. 'ENIGMA' objectives are designed to help the involved stakeholders better respond to this complex, and multi-dimensional problem, and leverage active collaboration by fostering and enabling interlinking of databases, and evidence-based deployment of preventative measures.

The 'TRIQUETRA' project (<https://triquetra-project.eu/>) is funded under the HORIZON-CL2-2022-HERITAGE-01 call and aims at creating an evidence-based assessment platform that allows precise risk stratification, and also creates a database of available mitigation measures and strategies, acting as a Decision Support Tool towards efficient risk mitigation and site remediation. The overall approach of Triquetra is based on three distinct steps: 1) Risk Identification, 2) Risk Quantification and 3) Risk Mitigation.

ERATOSTHENES Centre of Excellence is an autonomous Centre of Excellence with Cyprus University of Technology as its sole stakeholder, specialising in earth observation, space technology and geospatial analysis. Cyprus University of Technology has a 13-year experience in earth observations and geospatial analysis. Through the “EXCELSIOR” H2020 Teaming Project (<https://excelsior2020.eu/>), ERATOSTHENES Centre of Excellence aspires to become a Digital Innovation Hub for Earth Observation and Geospatial Information by offering knowledge, responsible research, open innovation and application services capable of sustaining Cyprus’ development. ERATOSTHENES Centre of Excellence aspires to actively contribute to the European Research Area (ERA) priorities in Atmosphere and Climate, Resilient Societies and Big Earth Data Analytics, as well as to become the reference Earth Observation/Geoinformation Centre for research and innovation in the Eastern Mediterranean, Middle East and North Africa (EMENA) region.

A core activity of ERATOSTHENES Centre of Excellence is to conduct high caliber, state-of-the-art research, both basic and applied. A central task is to acquire research funding for the Centre, to provide facilities to the researchers, and to support them to acquire funding for their research independently and via international and local collaborations. Collaborations with industrial partners are particularly encouraged and facilitated.

Appropriate measures of success will be collaboratively determined based on the Centre’s strategic growth plan and sustainability targets. These will be revised periodically by the Executive Committee and the Board of Directors.

Description of the Position

This position concerns researchers with Doctoral Degree.

Duties and Responsibilities

The successful candidate will be placed in the Department of Resilient Society of ERATOSTHENES Centre of Excellence, and is expected to contribute towards shaping and advancing its research and innovation agenda by:

1. Conduct applied or fundamental research;
2. Participation in all project’s activities;
3. Participation and/or organisation of trainings;
4. Participation in the preparation and submission of project deliverables;
5. Dissemination and communication of the project results through journal/conference publications, participation in conferences, information days and other relevant events;
6. Assisting in the definition of research goals and writing research proposals with the assistance of the Coordinator of the relevant Department;

7. Assisting in the establishment of local, regional, and international research networks that can support the long-term research agenda and priorities of the ERATOSTHENES Centre of Excellence;
8. Working towards fulfilling ERATOSTHENES Centre of Excellence mission goals;
9. Ensuring that the KPIs and other performance targets as set by the ERATOSTHENES Centre of Excellence are delivered;
10. Undertaking any other relevant duties deemed necessary.

Qualifications

1. PhD in Remote Sensing; Computer Science; Cultural Heritage documentation and management, or similar field.
2. Proven work experience in the use and / or management of geospatial data, Geoinformatics, Cultural Heritage digital documentation, Remote sensing and Earth observation (optical, multispectral, SAR, hyperspectral).
3. Proven work experience in any of the following topics, such as geohazards risk assessment, looting, Illicit trafficking of cultural properties, digital twins, crowd-sourcing and other related remote sensing topics in cultural heritage is a requirement.
4. Knowledge of at least one programming language (e.g., C++, Python, R, MATLAB, JavaScript) will be an advantage.
5. Proven work experience in RFID (Radio Frequencies), or Block-Chain and/or Artificial Intelligence and/or crowdsourcing will be an advantage.
6. Experience in working for the European Commission / European Space Agency projects will be an advantage.
7. Excellent knowledge of the English language both verbal and in writing.

Minimum Requirements for the post of Post-Doctoral Research Fellow'

The minimum requirement for the position of Post-Doctoral Research fellow is a doctoral degree from a recognized university.

The appointment will be for a period of one year (12 months) with the prospect of renewal for another one year. The annual gross salary for the (full-time) position will range from €36732.10 to €41408.54, depending on qualifications. It is noted that there is provision for 13th salary (the cost of the 13th salary is proportionally incorporated in the monthly remuneration).

Interested candidates must submit their application comprising of all documents listed below via email to vacancies@eratosthenes.org.cy, entering in the subject line: "Application for Post-Doctoral Research Fellow at the Resilient Society Department - Ref No.: ERA-PDR-RSD-59" no later than 4

December 2023 at 14.00 CYPRUS TIME, which is the deadline for the submission of the applications.

1. A letter in English stating the Department, the rank, the specialization in which he/she is interested in, as well as the date on which he/she can undertake responsibilities in case he/she is appointed, in English;
2. *Curriculum vitae* in English;
3. A short review of the research interests as well as a brief description of the future research plans, in English - up to 1500 words;
4. List of publications in English;
5. Reprints of at most three representative publications (if any);
6. Certified copies of the candidate's degree certificates;
7. Contact details;
8. Names and contact details of at least three senior academic/research referees. Candidates should request confidential letters of reference in English from the above senior academic/research referees, which must be sent by the referees themselves directly to ERATOSTHENES Centre of Excellence via email to vacancies@eratosthenes.org.cy, by the deadline for the submission of the applications. The names and addresses of the referees should be submitted together with the application because ERATOSTHENES Centre of Excellence may also request additional confidential information. ERATOSTHENES Centre of Excellence may also request reference letters from independent referees of the choice of members of the appointed Evaluation Committee, if considered necessary.

For further information visit ERATOSTHENES Centre of Excellence webpage at <http://www.eratosthenes.org.cy>.

It is noted that:

- For non-EU applicants a work permit will be required;
- Applications will be treated in strict confidence. All information provided will comply with the General Data Protection Regulation (GDPR) of the European Union;
- The job requires that the Researcher is physically present at the Centre's premises';
- ERATOSTHENES Centre of Excellence is an equal opportunity employer;
- ERATOSTHENES Centre of Excellence does not discriminate in any way on the basis of gender, religion or belief, ethnic, national or social origin, age, physical ability, marital status and sexual orientation.
- The title of the position may be modified.





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