

UNIVERSITY OF CYPRUS
POSTDOCTORAL RESEARCHER

Title: PostDoc in physical oceanography modeling
No. of Positions: One (1)
Category: Employment contract for one (1) year, with a possibility of renewal for another year.
Location: University of Cyprus, Nicosia, Cyprus

The University of Cyprus (Oceanography Center) announces one part-time (100 hours/month) Postdoctoral Researcher position in the area of physical oceanography modelling for the recently funded project FAMOS.

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; submission of application implies acceptance of this condition.

FAMOS (Sustainable, reliable, and socially acceptable modular **F**loating **i**slAnds for **M**ulti-use **O**ffshore **S**paces) is an EU-funded project (European Partnerships – Sustainable Blue Economy, SBEP; 1.5.2024-30.4.2027). FAMOS addresses the following:

- 1) Technological development of innovative floating island concepts that can withstand extreme wave conditions typical of fully exposed offshore sites of the Mediterranean Sea, the North Sea, and the Baltic Sea.
- 2) Integration of marine renewable energy devices (e.g., wind, solar, waves) with floating foundations, mooring systems, and protective floating breakwaters.
- 3) Social acceptance of the floating island solutions with reduced risks of conflict between different users.
- 4) Climatological evaluation of the offshore regions for deployment of future floating islands.

The main contribution of the Oceanography Center (OC-UCY) is in **WP2 - Environmental resource assessment, site identification and climate change impact**, the objective of which is to produce a high fidelity metocean hindcast database, with improved physical terms that will contribute to a more accurate design of the FAMOS system with environmentally friendly elements. The applicant is also expected to also contribute to other WPs of the project with the project obligations. In this context, the OC-UCY announces one (1) Post-Doctoral position.

JOB DESCRIPTION

The successful candidate is expected to:

- Setup and perform high-fidelity metocean simulations with high space and time resolution will be developed based on numerical simulation with unstructured grids in support of the selection of the candidate offshore sites for locating the floating islands in the three European basins.
- Conduct a detailed climatological and trend evaluation of all offshore regions using the 50-year hindcasted dataset.
- Contribute to all WPs of the FAMOS project.
- Prepare project reports and deliverables
- Write scientific papers describing the research outcome, to be published in international peer-reviewed journals
- Present the research outcomes at scientific conferences

QUALIFICATIONS

- Applicants must have a PhD degree in Physical Oceanography, or in Engineering, Applied Mathematics, Physics, or in other relevant field.
- Experience with Computational Fluid Dynamics algorithms and theory (e.g. Finite Volume or Finite Element methods) will be a significant advantage.
- Experience with the SCHISM numerical model will be an advantage

EMPLOYMENT TERMS

The position concerns part-time employment (100 hours/month) for a duration of one (1) year, with a potential of renewal



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depending on successful progress and performance. The gross monthly salary will depend on qualifications and experience, up to a maximum of 2000€. From this amount, employee contributions to the Cyprus government funds will be deducted. A 13th salary bonus is not provided.

APPLICATION

Interested candidates should send the following items to Professor Georgios Georgiou, Oceanography Center, , University of Cyprus, at the email address georgios@ucy.ac.cy :

- Cover letter explaining the interest of the applicant for the position and their 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 academic degrees and transcripts
- Identify at least two referees that can provide reference letters

The applications should be submitted as soon as possible, but not later than **Friday, 1st of November 2024, at 5 p.m.**

For more information, candidates may contact Professor Georgios Georgiou (tel. +357 22892612 and email georgios@ucy.ac.cy).

The best 3 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).

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.