

Job Description

1. General Details

Job Title	Postdoctoral Fellow in Marine Science and Geophysics.
Reporting Line	Reports to Dr. Yacine Addad
Department	Nuclear Engineering/Emirates Nuclear Technology Center

2. Job Purpose

- To provide high quality research support and undertake internationally competitive research aimed at publication thereby contributing to the academic and research mission of the University.
- Since the Postdoctoral, experience is transitional to becoming an independent researcher or faculty member, the Postdoctoral tries their best to acquire the varied skills necessary to advance their career with guidance from the advisor. These skills include, but are not limited to, the ability to present research plans and findings in a convincing style, both in oral and written modes of communication, the ability to understand research group management and supervision of others, the ability to establish contacts and network with colleagues pursuing a similar research agenda, the ability to organize and teach a class or a course if more inclined towards a teaching career.

3. Key Roles & Responsibilities

Strategic Responsibilities

- Implement numerical models using the university HPC and conduct numerical simulations of marine processes and ocean geophysics.
- Simulate marine transport processes using state-of-the-art numerical models.
- Analyze model outputs together with the available observations to generate scientific results and science-based recommendations.
- Study radionuclides dispersion in marine environment using relevant numerical models and observational datasets.
- To independently undertake research in the relevant discipline area using the appropriate methods and/or techniques.
- To produce research reports and publications as required by the funding body and for dissemination to the wider academic community.
- To collaborate with research colleagues and support staff internally as appropriate to the research and to actively.
- Develop appropriate external contacts and networks relevant to the project and to future funding opportunities.
- To attend, contribute, and where necessary lead relevant meetings.
- To undertake any other duties relevant to the research group activities.

Operational Responsibilities

This project uses advanced satellites and ground-based data along with weather and hydrodynamic modeling, ROMS, SCHISM and HyCOM models. The candidate should be familiar with at least one

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of these models. Preferably, the candidate should also be familiar with satellite remote sensing with applications to the marine and the atmospheric environments.

4. Qualifications, Experience & Person Specification

Required Qualifications

- A PhD degree in Oceanic/Environmental sciences with relevance to the nuclear industry or a closely related discipline.
- Advanced programming skills.
- Strong skills in coding for datamining techniques.

Required Experience

- Research experience in a relevant subject area of the research project is preferable.
- Experience of working in a research-team environment
- Experience of writing research reports, publications or other relevant outputs.
- Experience in advanced satellite data analysis, hydrodynamic modeling.
- Experience in running regional or global numerical models.

Required Skills

- Ability to conduct high-quality research, develop and publish peer-reviewed scientific papers, present research findings in a concise, clear and convincing style, both in oral and written modes of communication.
- A clear commitment in contributing to the research environment of the research group.
- Ability to establish contacts and network with colleagues pursuing a similar research agenda.

Personal Qualities

- A proven ability to well integrate in a diverse work environment.
- Excellent interpersonal, networking and communication skills.
- Focused, well organized and proven problem-solving skills.
- A good understanding of the research environment in a university.
- Proactive, independent with a positive attitude.
- A committed team-player, flexible and adaptive.

5. To Apply

For consideration, applicants need to submit a cover letter, curriculum vitae with a full list of professional achievements and publications, a statement of work highlighting past and current experiences and at least two letters of reference, all in one PDF to Dr. Yacine Addad at yacine.addad@ku.ac.ae.