

Research Assistant Position in Ocean Color Remote Sensing

We are seeking an outstanding researcher who has well-developed skills in the field of coastal ocean color remote sensing and optical oceanography. The candidate will be studying the inherent and apparent optical properties of the Arabian Gulf water using in situ and satellite observations. The optical properties vary with the wavelength of the light, depth, and time. These measurements can be utilized together with numerical models for finding the amount and type of materials, including living microorganisms, and sediments within the water.

The successful candidate will be based in Abu Dhabi (UAE) at Khalifa University. The individual in this position will work on satellite data from various ocean color satellite sensors and field measurements from ocean and atmosphere to develop, validate, and evaluate algorithms for the remote retrieval of the ocean color and atmospheric products.

The duties and responsibilities associated with this position include, but are not limited to the following:

Position Requirements

- PhD/Masters in remote sensing, bio-optical oceanography or a related discipline preferably with some postdoctoral experience.
- Experience in analyzing data from various satellite sensors, e.g., SeaWiFS, MERIS, MODIS, etc.
- Experience in advanced processing regional ocean color data using SeaDAS, ENVI-IDL, Matlab and/or other data processing software packages.
- Experience in evaluating and recalibrating ocean color algorithms using in situ measurements.
- Appropriate skills in batch processing large data sets and satellite database management.
- Hands-on experience in using ESRI software ArcGIS Desktop and ability to integrate imagery with other GIS data.
- Validating modelling software products in the Arabian Seas.
- Running modeling software on a Linux platform
- Writing technical MATLAB and Python scripts.

Required Experience

- Strong scientific background and practical experience in optical oceanography and numerical modeling.
- Experience in analyzing large observation datasets and model outputs to interpret oceanographic processes.
- Strong programming skills in Matlab, IDL, Python C/C++, or FORTRAN.
- Practical experience in running software on a Linux platform.
- Demonstrated ability to publish research findings in peer reviewed journals.
- Excellent skills in scientific writing/publishing, presentation, and communication in English.

Please note that all candidates should possess good English language skills and should be capable of working with people of different national and cultural backgrounds. The compensation package for this position is very competitive with annual tax-exempt net salary commensurate with experience and education. Additional benefits include: one-time moving allowance, free comprehensive medical coverage and other components.

The application package should include:

- A cover letter summarizing experience and motivation for this position
- Comprehensive Curriculum Vitae
- Sample of relevant developed applications/products
- A list of 2-3 potential referees

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