



### 3. Call for postdoctoral position in Petroleum Hydrocarbons Environmental Geochemistry.

The Center of Research and Advanced Studies (CINVESTAV) is a decentralized research center that has as its main objectives to promote the constant improvement of education at the graduate level, and generating original scientific research in different areas to increase the life styles and contribute with the development of Mexico.

Under a National Project "Implementation of oceanographic observations networks (physical, geochemical, ecological) for generating scenarios for possible contingencies related with the exploitation and production of hydrocarbons in the deep-water Gulf of Mexico", **the Marine Resources Department of CINVESTAV Merida is seeking for 1 postdoctoral investigator in Petroleum Hydrocarbons Environmental Geochemistry**. The Postdoctoral researchers will be inserted in an interdisciplinary group and interagency work.

The postdoctoral fellowship will begin from April 1, 2018 for a period of 12 months and may be renewed for an additional 12 months. The salary provided will depend on the skills and experience of the candidate.

Candidates should submit electronically:

- Detailed CV
- Proof of academic degree
- Name and contact details of two references
- Intention letter
- Work proposal (maximum 5 pages)
- Extensive experience in publishing results in peer-reviewed journals (Indispensable requirement).

Documents must be sent by email to Dr. José Q. García-Maldonado ([jose.garcia@cinvestav.mx](mailto:jose.garcia@cinvestav.mx)). **Deadline for the reception of documents: March 10th, 2018.**

**Centro de Investigación y de Estudios Avanzados del  
Instituto Politécnico Nacional  
Unidad Mérida**



We are looking for a candidate with a strong interest in the understanding how the oceanographic changes in the ocean and coastal chemistry can affect the distribution and abundance of petroleum hydrocarbons. The successful candidate will collaborate mainly with other researchers from CINVESTAV and with another research institutes (ECOSUR in Campeche, Mexico, CICESE, UNAM and UABC).

The position is offered for Geochemists, Biogeochemists, Chemical Oceanographers, Environmental Chemists or related areas with experience in oceanographic campaigns, petroleum hydrocarbons determination, chemical and hydrological databases management, experience on statistical analysis to interpret the spatial and temporal variability of the petroleum hydrocarbons distribution and occurrence, petroleum biomarkers occurrence and experience with environmental and/or spatial modeling. The work of the candidate will be related with marine and coastal petroleum hydrocarbons geochemistry, petroleum biomarkers and coastal currents dynamics, connectivity between petroleum hydrocarbons in water, organisms and sediments resulted from the use of soil (inland) with their effects in the water and sediments quality of the system. The candidate selected for this position must be able to determine the processes involved in the distribution and occurrence of petroleum hydrocarbons and its biomarkers in the Gulf of Mexico.

**Selection requirements**

- Posses a doctoral degree in Geochemistry, biogeochemistry, chemical oceanography, environmental chemistry or related areas.
- Have scientific productivity with at least two peer-reviewed article published in an international impact journal (ISI).
- To possess experience for the evaluation of spatial and temporal changes in the geochemical and chemical characteristics of the coastal and oceanic waters and sediments. Experience creating pollution indexes and managing software to create maps of isoconcentrations.
- Availability for working as part of the research team of the project and to help actively supporting interdisciplinary investigation.

**For additional information, please contact Dr. Flor Arcega Cabrera  
([flor.arcega@cinvestav.mx](mailto:flor.arcega@cinvestav.mx)).**