



**Cinvestav**

Unidad Mérida

## ***Postdoctoral Positions on Marine Sciences***

The Marine Resource Department of the Center of Research and Advanced Studies based at Mérida, Yucatán, Mexico seeks 5 postdoctoral research associates to develop research related to the National Oceanographic initiative “Oceanographic observation platforms, ecological base line, simulation models and regional scenarios of the natural capacity of the Gulf of Mexico to respond to large scale oil spill”. A key focus will be the systematic comparison of field oceanographic and modeling tools to understand the dynamic of the Gulf of Mexico marine ecosystems. This research will include the use of both field observations and a variety of modeling tools. The selected candidates will work with an interdisciplinary and inter-institutional group of experts from CINVESTAV (Mérida), ECOSUR (Campeche), CICESE (Ensenada), ICMYL-UNAM (Mexico City) and UABC (Ensenada).

The selected candidate is expected to have one or more of the following attributes: (a) a strong background publications; (b) strong diagnostic skills in analyzing large data sets. Candidates are required to have completed a Ph D degree no more than 5 years prior to taking the appointment. Initial appointment is for one year with the possibility of renewal subject to a satisfactory performance.

Application must include

- Detailed CV,
- Publication list
- A statement of research interests
- Name and contact address of 2 references

Deadline for application: November 5th, 2015

**Applicants should be sent to Prof. Leopoldina Aguirre-Macedo ([leo@mda.cinvestav.mx](mailto:leo@mda.cinvestav.mx)) with copy to Luis Sauma ([saumasoler@gmail.com](mailto:saumasoler@gmail.com))**

Starting Date: December 1st, 2015

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### ***Postdoc position 1. Numerical modeling to assess the effect of hydrocarbons on marine biota and ecosystems of the Gulf of Mexico***

The successful candidate will work to develop geo spatial and numerical models to assess the effect of hydrocarbons on marine biota (Benthos, Nekton, and Plankton) and ecosystems of the Gulf of Mexico analyzing large data sets collected.

Candidates are required to have completed a PhD degree in oceanography, Ecology, or related discipline.

Experience in spatial ecology, numerical models or GIS is highly desirable. Geospatial and numerical models will be used to assess the vulnerability of marine ecosystems of the Gulf of Mexico in face of large-scale oils spill scenarios.

For additional information, contact Dr. Angeles Liceaga, [liceaga@mda.cinvestav.mx](mailto:liceaga@mda.cinvestav.mx) or Dr. Daniel Pech correo, [dpech@ecosur.mx](mailto:dpech@ecosur.mx)

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### ***Posdoc position 2. Chemical Oceanography***

We are looking for a candidate with a strong interest in the understanding the change of ocean chemistry and their impact on marine biota. The successful candidate will work developing models form data collected and processed from oceanographic cruises. Results will be used to assess the vulnerability of marine ecosystems of the Gulf of Mexico in face of large-scale oils spill scenarios.

Candidates are required to have completed a PhD. degree in oceanography, Ecology, or related disciplines.

The successful candidate must have experience in the management of analytical equipment and analysis of large data sets.

For additional information, contact Dr. Jorge Herrera, [jherrera@mda.cinvestav.mx](mailto:jherrera@mda.cinvestav.mx) or Dr. Daniel Pech, [dpech@ecosur.mx](mailto:dpech@ecosur.mx)

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### ***Postdoc position 3. Biogeochemistry and environmental health of the ocean***

The work will be to support the evaluation of the presence of hydrocarbons and metals in the water column, sediment and fish tissue. The successful candidate will work directly with the laboratory unit Biogeochemistry CINVESTAV Merida, Yucatan, Mexico.

The position is offered for oceanographers, chemists, biogeochemical or related area with experience in quantifying and evaluating the presence of hydrocarbons and metals in coastal and deep sea environments. The purpose of the job is to determine the current residue levels of hydrocarbons and metals in the Yucatan platform and deep sea Gulf of Mexico and assess their potential impact on marine biota.

The successful candidate must have experience in the management of analytical equipment, knowledge on standard protocols for the determination of hydrocarbons in sediments, water column and fish tissue, as well as experience in handling large databases and capacity for multidisciplinary work.

The results obtened by the candidate should provide input for the assessment of ecosystem vulnerability to oil spills and for designing mesocosm experiments.

Selection criteria:

- Possess a doctoral degree in oceanography, biogeoquímica, chemistry or related discipline.
- Have proven experience in the management of analytical equipment for the determination of hydrocarbons and metals
- Have a broad willingness to work as part of the research team of the project and actively help strengthen interdisciplinary research lines.

For additional information contact Dr. Omar Zapata, [ozapata@mda.cinvestav.mx](mailto:ozapata@mda.cinvestav.mx) or Dr. Leopoldina Aguirre, [leo@mda.cinvestav.mx](mailto:leo@mda.cinvestav.mx)