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**Istituto Nazionale di
Geofisica e Vulcanologia**

Sezione di Bologna

Object: opening position for ocean modeller at INGV

Applications are invited for a 4 year post-doctoral fellowship at the Istituto Nazionale di Geofisica e Vulcanologia (INGV), Sezione di Bologna, Italy (Climate and ocean dynamics unit), starting as soon as possible.

The successful candidate will participate to the running EU Integrated Project SESAME (Southern European Seas: assessing and modelling the changes in ecosystem) aiming at hindcasting the Mediterranean Sea ecosystem dynamics in the 20th century and simulating its possible evolution under global change scenarios related to greenhouse gas emissions (IPCC scenario conditions) and land based inputs. The work will be carried out with a Mediterranean Sea coupled hydrodynamic-biogeochemical model implemented in the Mediterranean Sea.

The successful candidate will collaborate with a team of scientists from the fields of oceanography, atmospheric sciences and marine biogeochemistry

The main tasks that the successful candidate will undertake are the following:

- Implementation, upgrade and testing of a high-resolution NEMO OGCM in the Mediterranean.
- Production of multi-decadal simulations under current climate and scenario conditions.
- Validation of the model in key regions of the Mediterranean (using past data and data to be collected in the SESAME framework) and analysis of circulation changes and biogeochemistry response under different climate conditions.

The candidate will be based at the Bologna Section of INGV, in close collaboration with the Centro Euro-Mediterraneo per i Cambiamenti Climatici (CMCC-INGV). Applicants will be rated via an evaluation of their experience, education and their responses to the job specific questions with the announcement. The net salary will be approximately 1400 Euro.

The candidate would have a background in physical oceanography with interests in biogeochemistry applications. Preference will be given to candidates with experience with the OPA-NEMO system. Above-average knowledge of Unix and FORTRAN90 is required, and experience with supercomputers is also welcome.

Interested candidates must submit by electronic mail a curriculum vitae, including a list of published papers and a statement of research interests.

Contact Person:

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