SCIENTIFIC PROGRAMMER

IN LAND SURFACE MODELING
(Fr: ingenieur de recherche)

LSCE, Gif-sur-Yvette, 18/09/2015

The modeling group of LSCE (mixed unit CNRS-CEA-UVSQ, www.lsce.ipsl.fr/) is looking for a scientific programmer interested in land surface modeling. This position is available for a fixed-term period of 24 months with possible extension.

The work will be performed in the framework of several European projects aiming at a better understanding of carbon and water fluxes in the soil-plant-atmosphere continuum to contribute to the scientific bases of climate change and ecosystem management. The scientific programmer will be part of the team responsible to merge different recently developed versions of the global land surface model ORCHIDEE (http://labex.ipsl.fr/orchidee/) in particular one version with the nitrogen cycle and one with forest management. (S)he will be responsible of running simulations, debugging the code and providing support to ORCHIDEE users. The successful candidate is expected to actively contribute to the weekly ORCHIDEE meetings and as such help to shape the future of the model. The positions allows for some flexibility and following discussion with the successful candidate a stronger emphasis can be placed on supporting research activities of the group or investing in new numerical and/or structural solutions to improve the model performances.

The activities will be mainly located at LSCE (CEA, Orme des Merisiers, Gif/Yvette, France) on the plateau of Saclay, approximately 25 km south-west of Paris, with possible travels to other European land surface modeling groups.

Home institution:
Laboratoire des Sciences du Climat et de l’Environnement (LSCE, Orme-les-Merisiers, Gif-sur-Yvette). LSCE is is a world class institute and a thriving nexus for climate change research. LSCE employs over 320 researchers covering 30 different nationalities. Their research mission is to contribute to a better understanding of the interactions between human activities in the Earth System, environment and climate dynamics at different time scales. LSCE is a world class institute and a thriving nexus for climate change research.

Qualifications required:
Given the interdisciplinary nature of the research we are seeking for an individual with a degree (Master or PhD) in for example, computer science, computational science, mathematics, physic, engineering, meteorology or theoretical ecology. A broad interest in natural sciences more specifically terrestrial ecology is welcome. Rather than for a specific training, we are looking for a candidate who is able to demonstrate her/his ability to develop code (Fortran 90) and solve numerical schemes. Experience with netcdf, parallel coding and svn would be appreciated. Given the flexibility of the specified tasks of the position (see above), candidates are expected to describe their preferences in the application.

Required content of the application:

There are no specified application forms. Applications and inquiries should be sent to

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Applications should include (1) a curriculum vitae, (2) statement of motivation (see above) and (3) names, addresses, phone numbers, and email addresses of at least two references. The position is available from January 1st and will remain open until filled with review of applications and interviews starting on October 10th. Salary follows national directives and is adjusted for work experience. A dual position may be explored in case the partner has a competitive CV and background in line with the research activities at LSCE.