

Position offer : « Développement of a snow and meteorological climatology of the Pyrenees mountain range using the Safran-Crocus-MEPRA models. Comparison with surface and remote sensing observations. »

General Informations

<i>Laboratory</i>	Météo-France-CNRS/CNRM-GAME (http://www.cnrm.meteo.fr/)
<i>Scientific team</i>	Centre d'Etudes de la Neige/Team « Météorologie en Montagne, Avalanches »
<i>Adress</i>	CEN, 1441 rue de la Piscine 38400 Saint Martin d'Hères, France
<i>Contract duration</i>	12 months
<i>Salary</i>	Depending on qualification and professional experience (net income from 2000 to 2500 € per month)
<i>Beginning date</i>	1 January 2011
<i>Application deadline</i>	15 September 2010
<i>Contact</i>	Mr G. Giraud (E-mail : gerald.giraud@meteo.fr , Tel : +33 4 76 63 79 16)

Job Description

<i>Background</i>	<p>The FLUXPYR project aims the study of the interfaces between soil, biosphere and atmosphere at the Pyrenees range scale. The project partners are French, Spanish and Andorran laboratory (http://www.fluxpyr.eu/eng/). The CNRM-GAME/CEN is involved in the project part devoted to snowpack, with two main axis :</p> <ul style="list-style-type: none"> - creation of a snow and meteorological climatology using the numerical modelling tool Safran-Crocus-MEPRA, - comparison of the simulated climatology with observed data provided by the project partners, particularly the snow cover maps derived by the CESBIO laboratory from SPOT images.
<i>Job specifications</i>	<p>The candidate will work on the two axis above. In detail, she/he will :</p> <ul style="list-style-type: none"> - get familiar with the Safran-Crocus-MEPRA models and use them to simulate some meteorological and snow situations in the Pyrenees between 1958 and today, - validate the results and check the quality into the light of models input data and validation data, - propose methods and algorithms in order to improve the results quality, - create simulated snow cover maps and compare them with observed maps provided by CESBIO (derived from SPOT images), - perform additional comparisons with ground snow depth observations furnished by the other project partners. <p>The candidate will develop tools and methods that will be used to reach the project objectives, and that will continue later to be used in CEN in the framework of climatological analysis.</p> <p>The candidate will valorize her/his work with at least a publication in a rank A international journal and some communications in international</p>

	congresses. She/he also will take part to the FLUXPYR project meetings and working meetings with the project partners.
Requirements	
<i>Qualification</i>	Ingeener diploma (data processing, modelling) or PhD in atmospheric sciences, hydrology, snow sciences, porous medium or equivalent
<i>Experience</i>	The position is a good opportunity for a first professional experience
<i>Habilities</i>	Communication, teamwork, initiav and synthesis capacities
<i>Language</i>	English
<i>Computer knowledges</i>	Languages : Scilab or equivalent, knowledge in FORTRAN. Operating systems : Linux, Windows.
<i>Restrictions</i>	Position offered to males and females with an ingeener diploma or a PhD (french or foreign) without any age, nationality or any other kind of restrictions, following the French law.
Application Form	
	The application form will have to include a motivation letter (1 page) and a curriculum vitae. It has to be sent before 15 September 2010 to : <p style="text-align: center;">Mr Giraud Météo-France Centre d'Etudes de la Neige 1441 rue de la Piscine 38400 Saint Martin d'Hères France</p>