



Université Nice Sophia Antipolis – **UNS**  
Observatoire de la Côte d'Azur – **OCA**  
Centre National de la Recherche Scientifique – **CNRS**  
Institut de Recherche pour le Développement – **IRD**

<http://geoazur.oca.eu>

Membre de l'Université Côte d'Azur – **UCA**

## **Postdoctoral position in Geophysics in the field of crustal deformation at the Earth science research lab Géoazur (Sophia-Antipolis, France)**

For the E-POST project (The Early POSTseismic deformation: a key process in the earthquake cycle. From observation to modeling.), funded by the French National Research Agency (ANR), we are seeking to appoint a Postdoctoral Researcher with experience in the field of mechanical modeling and/or geodetic earthquake source modeling and/or dynamic earthquake source modeling. Knowledge of friction laws and fault modeling applications will be appreciated.

The main objective of the project is to better understand the complex space and time evolution of postseismic transient processes to better assess their link with the coseismic processes and how they contribute to the stress redistribution, which might lead to the generation of catastrophic seismic sequences. The originality of the project is to focus on the shorter time scale of the postseismic phase, the transition from the co- to postseismic (i.e. early postseismic, from minutes to early days) and to test to what extent the better description and knowledge of the co- and early postseismic deformation help to resolve the longer time-scale postseismic deformation (months - years).

This project federates scientists with skills ranging from geodesy, seismology, hydro-mechanics, and crustal mechanics. It provides a chance to study the postseismic processes with an integrated approach from observation to kinematic and mechanical models. The Postdoctoral Researcher will focus its research on the postseismic mechanical processes related to faults and will work at the interface of the different modeling competences of the group, helping carrying the results a step further. The main objective of the postdoctoral research is to understand which physics may account for the various slip behavior on the fault and to relate physics to kinematics.

The successful candidate will be expected to have experience in linux/unix environment and programming, to have good written and oral communication skills in English, and to have a result-oriented proactive attitude for publishing scientific results in top refereed journals.

### **Details and application procedure**

From mid-August, candidate proposal will be examined until position is filled. The position is open as early as October 1st, 2017, and early start will be strongly appreciated.

Net income will be in the range of 2000-2800€/months depending on the CNRS standards based on experience.

Duration will be 12 to 24 months depending on experience and start of the position.

Proposal must be sent by e-mail to [mathilde.vergnolle@geoazur.unice.fr](mailto:mathilde.vergnolle@geoazur.unice.fr) with e-mail subject "E-POST Postdoc position".

Proposal must contain: 1/ a motivation letter with proposed position starting date, 2/ a vitae, including at least 2 references with name, address, e-mail and professional relation, 3/ a brief description of your research activities, including the list of scientific publications and communications.

### **Additional information**

Géoazur is an academic research unit located in Sophia-Antipolis, a leading European technology park, just outside the city of Nice. The research lab is part of the University Côte d'Azur (UCA) and Observatory Côte d'Azur (OCA).

E-POST project web site: <https://projets.oca.eu/index.php/en/e-post-en>