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POST-DOCTORAL RESEARCH ASSISTANTSHIP

As part of a newly funded project by the French National Research Agency (ANR) called GEOSMEC (Geometry of Strike-Slip faults through Multiple Earthquake Cycles) we are actively seeking a post doctoral candidate to investigate the interplay between dynamic earthquake ruptures, off-fault damage and fault network connectivity. This 2-year project will use numerical modeling techniques (Finite and Spectral Element Methods) to model dynamic rupture propagation (Mode II rupture) along a geometrically complex fault system (predefined crack path with complex friction properties) hosted in an anelastic medium (Viscoplastic and Dynamic Damage). Associated work will involve developing realistic constitutive response for the medium subject to dynamic off-fault cracking during earthquake rupture propagation. The modeling work will be done in close collaboration with earthquake geologists and will be applied to carefully observed and mapped fault systems.

The appointee will be based at *Institut de Physique du Globe de Paris, France* and will work closely with Harsha S. Bhat to develop and assess the analytical/numerical models and with Yann Klinger to design the numerical experiments and compare the results with the field observations.

The successful applicant is expected to have some experience in Solid Mechanics and Computational Solid Mechanics. A PhD in the area of solid mechanics, earthquake source physics or related field is required. The appointee will be expected to participate in a variety of dissemination activities including presentation at meetings and publication of results in addition to participation in field work.

The deadline for applications is May 1, 2013 but the position will remain open until filled. Please email Harsha S. Bhat (bhat@ipgp.fr) or Yann Klinger (klinger@ipgp.fr) a CV, a brief research statement and names and emails of three references.

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