Perfil del candidato: Físico/Matemático/Geólogo/Geofísico
Lugar de trabajo: Institute for Geosciences Chair of Applied Geophysics, Friedrich-Schiller-Universität, Jena, Alemania
Duración del contrato: 3 años
Remuneración: 1000 €/mes
Tema de investigación: Elipticidad de Ondas Rayleigh.

The H/V method, which utilizes the vector character of Rayleigh waves by calculating the spectral ratio of horizontal and vertical components, is a popular technique to investigate the depth dependence of elastic parameters by using ambient vibration recordings. A comprehensive application of the H/V-method in regions with different site conditions requires a theoretical confirmation of this, which is yet absent. The current project aims at closing this gap. One starting-point is an exact formula for H/V for the simple model "layer over halfspace", which was derived by the principal investigators. We search applicants among physicists, mathematicians and geophysicists. We expect a special interest for wave-theoretical questions in connection with interest in methods of applied mathematics as well as in the application of symbolic programming languages like MATHEMATICA. The project will be done in close cooperation with the Institute for Geosciences of the Potsdam University.

Los interesados debéis poneros en contacto URGENTEMENTE con el Profesor José Badal.
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