



MONASH University

Department of Civil Engineering



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**POSTDOCTORAL RESEARCH ASSOCIATE  
On  
Geothermal Energy Piles**

**(full time, fixed term-2 years, \$60,000-\$75,000 per annum)**

The aim of this project is to evaluate the performance of geothermal piles embedded in typical soils encountered in Victoria, Australia. The project, funded by Sustainability Victoria, Vibro-Pile, Golder Associates, GenesisNow and MIRVAC, will be conducted in two stages. Stage 1 will focus on the determination of the thermo-mechanical properties of different soils. Stage 2 will concentrate on the in-situ component of the project which will involve conducting a full-scale fully-instrumented pilot thermo-pile load test to assess the temperature effect on pile loading and heat exchange capacity at different temperature gradient levels and modes. The project is expected to start 1 June 2009.

Applicants should have a Doctorate in Civil or Mechanical Engineering, coupled with demonstrated research ability and experience in studying heat exchange or transfer in porous media. They should possess expertise in one or more of the following areas: Pile foundation, Thermo-Mechanical behaviour of Geomaterials, Thermal conductivity of soils, Laboratory testing, Heat exchange in porous media. Strong written and oral communication skills will be essential. Previous experience with piling will be highly advantageous

For further information, contact: Associate Professor Malek Bouazza, Department of Civil Engineering, Building 60, Monash University, Melbourne, Vic. 3800, Australia (Tel: 03-9905 4956; Fax: 03-9905 4944; [Email: malek.bouazza@eng.monash.edu.au](mailto:malek.bouazza@eng.monash.edu.au)).

Applications should include a cover letter specifying interests, qualifications and experience as it relates to the research project, a curriculum vitae, copies of academic transcripts, names and contact details of three referees. The applications should be sent to A/Prof Malek at the above address. The search will continue until the position is filled.