

Program for Prime Minister Latin American Scholarships

Name of Institution	Universidad de Antioquia
Type of institution	Public University
Location (city and country)	Medellín / Colombia
Name of the course/program	Research internship in Civil Engineering (Geotechnical Engineering)
Objective of the program	Numerical analysis of rainfall infiltration on slope stability
Content (courses list)	<p>The research involves the study of rainfall infiltration on unsaturated soils. As part of the work, numerical simulations will be conducted to evaluate the effect of water infiltration on the reduction of strength and development of deformation on soil (strain localization).</p> <p>The research will provide insights on the response of different soils and layered soils when subjected to variable rainfall patterns; it allows us to understand the mechanics of rainfall infiltration on porous materials and to propose remedial measures to avoid soil failure due to water infiltration.</p>
Course start and end dates	30/January / 2017 to 30/January/2018 (Depending on mutual agreement)
Course costs (enrolment, tuition, materials, etc)	No tuition/enrolment costs involved.
Course delivery language (if not English, then level of Spanish or Portuguese required)	The internship will be conducted in English. A basic Spanish level is desired but not mandatory.
Entry requirements	<ul style="list-style-type: none"> - Graduate students only - Undergraduate who have completed 80% of their study plan. - Knowledge of numerical analysis and computer simulations using programs such as Plaxis, Ansys, Abacus, etc.
Accommodation options and costs	Accommodation should be arranged by the applicant. Universidad de Antioquia can provide advice on areas and costs. Students will also be assigned a volunteer "Buddy-student" to help him/her get installed.
Website	www.udea.edu.co
Contact person and email for further information and/or enrolment	<p>Research group contact point: Name: Carlos Alberto Vega Posada Email: carlosa.vega@udea.edu.co Phone number: (034) 2198575 Position: Assistant Professor</p> <p>Name: Edwin Fabián García Aristizábal Email: edwin.garcia@udea.edu.co Phone number: (034) 2198573 Position: Associate Professor</p> <p>University contact point: Santiago López Álvarez investigacioninter@udea.edu.co 574-2198212 Scientific Cooperation Advisor</p>