



Northwestern
University

Post-doc position at Northwestern

Location: The *Mechanics and Energy Laboratory (MEL)* of Northwestern University, directed by Prof. Alessandro F. Rotta Loria, develops research activities addressing fundamental and applied problems centered on the mechanics of geomaterials and structural systems. The ultimate goal of these activities is to develop competence serving the achievement of efficient energy harvesting and storage applications, the development of resilient structures and infrastructures, the prevention or mitigation of natural hazards, and the establishment of built environments that can adapt their features to meet human activity needs.

Position: MEL is seeking a post-doctoral researcher to push the current knowledge boundaries about the multiphysical properties and behavior of geomaterials subjected to electrical current flows, by means of experimental laboratory investigations and coupled theoretical analyses, from the microscopic to the macroscopic scales.

Candidate: To be considered for this position, a Ph.D. or equivalent degree in mechanics, materials science, civil or environmental engineering, chemistry, physics or other related fields is required. Applicants nearing completion of their Ph.D. are encouraged to apply. The candidate is expected to proactively develop the research program foreseen for this position under the supervision of Prof. Rotta Loria. A strong expertise and interest in the multiphysical experimental laboratory testing of materials is required. Independent research skills, teamworking attitude when appropriate, excellent communication skills and commitment are desired for this position.

Conditions: This full-time position is for a duration of 1 year, starting from April 1st 2019, with the possibility of a contract extension after this period. Cutting-edge research facilities and a competitive salary are offered for this position. Northwestern University is characterized by an outstanding international environment full of training and development opportunities.

Contact: Please contact Prof. Alessandro F. Rotta Loria (af-rottaloria@northwestern.edu) for more information about this position and the MEL. This call closes on February 25th, 2020. Candidates are encouraged to apply as soon as possible by sending *as a single PDF*: (i) a 1-page cover letter, (ii) a curriculum vitae with their publications list, (iii) contact information of two references and (iv) two representative publications.