

The Soil Science Department of the Institute of Geology at the National Autonomous University of Mexico

offers an

## **Associate Researcher Position**

**In the area of**

**Humified organic matter: stability, behavior and relevance in critical zone processes**

Applicants will have to develop a research program on the formation and stability of humified soil organic matter in distinct environments of Mexico (karst region, temperate volcanic landscapes, semi-arid ecosystems). The influence of specific human activities, as for example slash and burn agriculture, forest fires, waste disposal (wastewater irrigation), biochar or prehispanic soil amendment practices on soil organic matter humification and stabilization should be considered as determining factors. Also the role of particular humic substances in binding or mobilizing metals (as Al, Fe, Cu) and contaminants (inorganic and organic) are of interest. Applicants should be familiar with the use of modern methods for the characterization of soil organic matter as NMR, FT-IR, isotopic composition, etc.

Teaching activities on these topics as well as master and PhD student advisory should be accomplished in parallel to the research program.

For more information and to be acquainted on our current facilities, please contact the Chairman of the Soil Science Department, Dr. Francisco Martín Romero, at:

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