



INSTITUTO
DE INGENIERÍA
UNAM®

Position Title:

Researcher, specializing in numerical simulation of complex geotechnical materials.

Job Group:

Professional & Scientific.

Required Minimum Qualifications:

Doctoral degree and 2 years of related experience.

Preferred Qualifications:

1. Doctoral degree in Engineering or in a related and relevant discipline (subjected to the Admissions Committee approval).
2. Given the position is suited for first-stage and junior researchers, the candidate must be younger than 37 years, if male, and 39 years old, if female, at the time of formal appointment.
3. At least two years of experience in the requested area, including postdoctoral stays.
4. Scientific productivity in international high-impact journals (JCRs).
5. Should be proficient in the usage of programming methods required for numerical modelling.
6. Experience in generating, promoting or participating in research projects involving numerical modelling of geotechnical problems.
7. Preferably, demonstrable experience in teaching and training of students.
8. Soft skills such as teamwork disposition and excellent oral and written expression skills in English (and in Spanish, see item 11) are an asset.
9. Interest in an academic career at UNAM.
10. Proficiency in Technical English.
11. Proficiency in Spanish. When the candidate is not a Spanish native-speaker, it is expected proficiency be achieved within the two years of its appointment.

Job Description:

A proactive and specialized researcher is wanted in *Numerical simulation of complex geotechnical materials*, including the capacity for generating constitutive models of the geomaterials under study. The selected candidate will be responsible for basic and applied research of outstanding quality, for executing projects aimed at achieving technological innovations applicable to the solution of practical problems of national interest. Her/His obligations will be to elaborate and conduct research proposals, to publish the results of Her/His research in national and international high-impact technical and/or scientific journals, to participate in national and international conferences and to be actively involved in training human resources under Her/His supervision through the direction of theses and dissertations (undergraduate and post graduate degrees) and also in teaching courses at graduate and undergraduate levels.



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Appointment Type:

Regular with Term Appointment (Fixed Term)

Time Type:

Full time

Application Instructions:

To apply for this position, please be prepared to submit the following documents in pdf format:

1. Personal cover letter, detailing the reasons why you wish to be considered for the position.
2. Extended resume.
3. Summary of one page, emphasizing the activities that fit the position's profile.
4. Doctoral thesis cover page and copy of the doctoral degree.
5. Work plan for one year with expected products and results.
6. Most relevant publications within the scope of the current appointment.
7. Copy of official identity document that indicates place and date of birth.
8. Three recommendation letters of academic referees, with contact information, including email addresses.
9. Research project (maximum 15 pages) on the topic: "*Numerical simulation of very soft lacustrine soils*".

Interested candidates must send the requested documents to Dr. Norma Patricia López-Acosta, Academic Secretary of IIUNAM (nlopeza@iingen.unam.mx ; SAcademica@iingen.unam.mx), by January 28th 2022. Promising candidates will be notified and might be invited to an interview, during which they are expected to present their research project.

For further information on the IIUNAM and the UNAM, you might visit www.iingen.unam.mx and www.unam.mx, respectively.

Sincerely,

"POR MI RAZA HABLARÁ EL ESPÍRITU"

University City, Mexico City, December 14th, 2021

DIRECTOR

DR. ROSA MARÍA RAMÍREZ ZAMORA

*Note: This appointment fulfils a one-year position at the IIUNAM, that may be renewed after completion, depending on performance and results. The decision of the *ad hoc* IIUNAM Evaluation Committee concerning the final selection of an appointment candidate is unappealable.