

Position Title:

Researcher in Mechanical Engineer, specializing in Modelling, Estimation and Control of Thermochemical Processes.

Job Group:

Professional & Scientific.

Required Minimum Qualifications:

Doctoral degree and 4 years of related experience.

Preferred Qualifications:

1. Doctoral degree in Engineering or a related and relevant discipline (subject to the Admissions Committee approval).
2. At least four years of experience in the requested research area.
3. At least two years of postdoctoral experience.
4. Scientific productivity in international high-impact journals (JCRs).
5. Experience in research projects on real problems of Modelling, Estimation and Control of Thermochemical Processes.
6. Preferably, demonstrable experience in teaching and training of students.
7. Interest in pursuing an academic career at Instituto de Ingeniería, Universidad Nacional Autónoma de México (IIUNAM, Morelia Academic Unit).
8. Soft skills such as teamwork disposition and excellent oral and written expression skills are an asset.
9. Proficiency in technical English.
10. Proficiency in Spanish. When the candidate is not a native Spanish speaker, it is expected that proficiency be achieved within two years of his/her appointment.

Job description:

The selected candidate will be responsible for basic and applied research of outstanding quality, for executing projects aimed at developing technical solutions to national problems in the field of Modelling, Estimation and Control of Thermochemical Processes. Her/His duties will be to elaborate and conduct research projects, projects with industry, publish his/her results in national and international high-impact factor scientific journals, participate in national and international conferences, and train technical human resources under her/his supervision through the direction of thesis (degree, master's, and doctorate) and teaching courses at a university level. It is expected that the candidate will participate in national and technical committees and technical societies, as well as to establish outreach activities within the industry in Mexico.

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 resumé with supporting documentation.
3. A one-page summary, emphasizing the activities that fit the position's profile.
4. Doctoral thesis cover page and copy of the doctoral degree.
5. Work plan for three years with expected products and results.
6. List of most relevant publications within the scope of the current appointment.
7. Copy of official ID indicating place and date of birth.
8. Three recommendation letters of academic referees, with contact information, including email addresses.
9. Research project (maximum 25 pages, Times New Roman 12, 1.15 line spacing) on the topic: "**Dynamic modelling of gasification processes**".

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 October 31st 2024. 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.

“POR MI RAZA HABLARÁ EL ESPÍRITU”

Ciudad Universitaria, Cd. Mx., a 24 de septiembre de 2024.

LA DIRECTORA



Dra. Rosa María Ramírez Zamora

***Note:** This invitation corresponds to a place per specific work with a duration of one year, renewable according to academic performance. As a consequence, the decision of the Evaluation Committee of the Instituto de Ingeniería is final with respect to the candidate selected for the position in question.