



The Faculty of Chemistry at UNAM calls for individuals interested in the selection competition for a FULL-TIME PROFESSOR position in the area of Technological Development and Innovation of materials and processes involving macromolecules. The position is affiliated with the Department of Chemical Engineering, covering the following general guidelines:

Requirements:

1. Hold a Ph.D. in Chemical Engineering, Chemistry, or related fields, with an emphasis on macromolecules (synthesis, chemical modification, characterization, processing, polymer rheology; modeling of polymerization processes, chemical modification, rheology, or polymer processing).
2. Have published works in indexed international journals demonstrating competence in the area of this competition.
3. Be a member of the National Researchers System ([SNI-CONAHCYT](#)) or meet the requirements for immediate admission.
4. Possess theoretical and experimental training in the area of product and process engineering of polymeric materials.
5. Have at least 5 years of work experience in the national or foreign chemical industry, in the field of polymers, or have transferred technologies to industry companies from an academic or applied research environment.
6. Have focused research work on emerging areas of chemical engineering, chemical sciences, or related fields, with an emphasis on new materials.
7. Have been a leader in multidisciplinary research or technological development projects funded by public institutions, national or foreign, or internal funding in the private sector.
8. Have experience in teaching undergraduate and graduate courses.
9. Be willing to engage in multidisciplinary teamwork.
10. Spoken and written fluency in Spanish is desired but not mandatory.

Responsibilities:

1. Conduct independent, original, and high-quality research in the field of science and engineering of polymeric materials.
2. Supervise undergraduate and graduate theses.
3. Teach undergraduate and graduate courses.
4. Dedicate the maximum number of hours specified by the Academic Staff Statute ([EPA-UNAM](#)) for the assigned category and level to classroom teaching in the Chemical Engineering undergraduate program. At least one course should belong to the Common Core of the programs offered by the Faculty.
5. Participate in academic management activities (course planning, development of test question banks, organization of leveling courses, advising, workshops, and departmental exams).
6. Propose and develop feasible solutions from technical, economic, and environmental perspectives for production processes.

7. The projects to be developed should address the needs of the industry, mainly in relation to the design, improvement, and innovation of transformation processes in the chemical industry, in the area of polymeric materials.
8. Develop a robust infrastructure to carry out necessary research and technological development activities.
9. Provide viable, efficient, and timely solutions, with a focus on green and sustainable chemistry, to problems presented by representatives of companies in the chemical sector.
10. Develop, demonstrate, and negotiate the transfer of technologies developed by the polymer group of the chemical engineering department of FQ-UNAM.

Candidates must electronically submit the following documents in PDF format by March 1st 2024 to gestionsaip@unam.mx :

1. Updated curriculum vitae (do not send supporting documents at this stage), following the format at the following link: [Format-CV-FQ-2020](#).
2. A written document of no more than 3 pages describing the candidate's research.
3. A 2-year work plan of no more than 3 pages proposing research on the stated topic related to the area covered by the call.
4. A written document of no more than 3 pages describing the candidate's teaching experience and a teaching activities plan, including the didactic strategies to be used in the classroom.
5. A list of subjects that could be taught at the undergraduate and graduate levels, in accordance with the study plans of the Department of Chemical Engineering at the Faculty of Chemistry and the respective postgraduate programs.
6. A list of computational tools with which the candidate has experience.
7. A statement of motivation of no more than 1 page describing the reasons for wishing to occupy the position.
8. Two confidential recommendation letters, to be sent directly by the referees to gestionsaip@unam.mx .

Document Submission Requirements:

- The subject of the email should be ConTCIQ.
- File names should include the candidate's name and an identifier (e.g., Lastname_Firstname_TeachingExperience).
- Submit the documentation in a zip file. Do not use Google Drive, Dropbox, or any online collaboration and file storage platform.

The selection process will involve the following stages:

1. The Faculty of Chemistry will establish an ad hoc committee composed of experts in the relevant areas to analyze the received applications.
2. Candidates chosen by the ad hoc committee will present a seminar describing their teaching and research achievements, as well as the proposed work plan. This presentation will be followed by an interview and questioning.
3. The selected candidate's file will be forwarded to the Technical Council of the Faculty of Chemistry for analysis and approval.
4. The offered position falls under the hiring modality specified in Article 51 of [EPA-UNAM](#).

It should be noted that this procedure does not constitute a competitive examination as per the UNAM Academic Staff Statute. Therefore, the decision of the ad hoc committee will be final and not subject to appeal.