

CALL FOR APPLICATIONS

RESEARCH ABROAD PROGRAM AT UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

ESTANCIA INTERNACIONAL
FALL 2024

Tecnológico de Monterrey aims to offer its high-performing students a multicultural environment that provides a global perspective, and academic and personal development in prestigious international institutions. The Vice Rector's Office for Internationalization, in collaboration with the EIC and the research laboratories of UIUC, invite pre-graduate students to carry out research abroad in Fall 2024 term.

This call is aimed at Tec21 study plans.

GENERAL REQUIREMENTS

- Period: August - December 2024
- To be enrolled in the sixth semester by the time of applying to this call.
- To have completed a minimum of 90 credits by the time of applying.
- A minimum general average of 90.
- High English language level: TOEFL iBT 80, TOEFL ITP 550, or IELTS: 6.5 (current).
- Previous participation and experience in research projects are especially desirable and considered an asset.

GUIDELINES

- It is the candidate's responsibility to carefully read the information on possible research projects and additional information on the center or laboratory, and scientists associated with the research project of their interest.
- This call does not include funds to pay for accommodation, food, or personal expenditure. Thus, students must have sufficient funds and appropriate Medical and Liability Insurance as per hosting university guidelines to support themselves at URBANA-CHAMPAIGN for the duration of the respective research stay. Please, consider the [living costs](#).
- A professor from Tecnológico de Monterrey will supervise the student's performance and monitor the compliance of the research objectives to assign a grade to the student.
- Students are required to pay a fee for the University visa DS-2019 and GET services Processing Fee: 1260 USD in addition to visa fees paid to US Embassy and Campus Undergraduate Fees (w/Health Insurance Waiver): 1620 USD.

- In addition to the medical insurance a general liability insurance with a minimum coverage of 500,000 USD is required.
- In addition to COVID-19 vaccine, the students must provide a certified translation of vaccination records according to the following guidelines: <https://mckinley.illinois.edu/new-students/new-student-faq>

PROJECTS

Laboratory	No. Spots	Major	Project
Multicultural Insights Lab	1	LAET, LEM, LIN, BGB, LDE	Cultural orientation and political polarization across the globe
Renewable Energy & Turbulent Environment	1	IM, IC	1. Characterizing dominant flow and structure interaction relevant to floating offshore Wind turbines.
Renewable Energy & Turbulent Environment	1	IM, IC	1. Understanding the dynamics of inertial particles in stratified media.
Renewable Energy & Turbulent Environment	1	IM, IC	1. Characterizing the boundary layer flow under unsteady wall motions.
Chemistry	1	IQ	1. Nuevas tecnologías electroquímicas para la remoción y transformación de CO ₂ atmosférico basadas en electrocatálisis y en polarización electrostática.
Chemistry	1	IQ	2. Estudio mecanístico de la generación electroquímica in situ de reactivos oxigenados para la degradación de contaminantes
Chemistry	1	IQ	3. Caracterización nanoelectroquímica de especies activas redox usando métodos electródicos avanzados y microfluídicos
Chemistry	1	IQ	4. Evaluación espectroelectroquímica, caracterización, y síntesis de nuevas arquitecturas basadas en oligómeros y polímeros para baterías de flujo redox
Chemistry	1	IQ	5. Caracterización electroquímica de procesos de degradación y regeneración química en baterías de litio y otros metales
Chemistry	1	IQ	Mechanistic and Kinetic Studies of new Catalyst and their applications
Chemistry	1	IQ	1. AI-guided autonomous synthesis and discovery of Quantum dots and other Inorganic nanomaterials
Chemistry	1	IQ	2. Electrocatalysis for sustainable chemical manufacturing: CO ₂ reduction, ammonia oxidation, glycerol oxidation.
Chemistry	1	IQ	Electrochemical Removal of Short-Chain Per- and Polyfluoroalkyl Substances (PFAS) from Water
Chemistry	1	IQ	Development of flow reactor for automated synthesis of polymer.
Food Science & Human Nutrition	1	IBT, IAL	Effect of whole foods in microbiota and obesity

Food Science & Human Nutrition	3	IBT	Gene expression related to host-microbiota interaction during increased inflammation
Food Science & Human Nutrition	3	IBT, IAL	Effect of proteins and peptides in inflammation and adipogenesis
Food Science & Human Nutrition	1	IBT	Lactic Acid Bacteria focused research
Food Science & Human Nutrition	1	IBT, IAL	Applying engineering and statistical approaches to applied food safety problems
Food Science & Human Nutrition	1	IBT, IAL	Microbial Safety of Food and Environment
Food Science & Human Nutrition	1	IBT	Evaluation of Corn-Extracted Anthocyanins Bioactivity on Pancreatic Cancer Cells

HOW TO APPLY

1. Update your profile at:

MITEC -> **MI EXPERIENCIA INTERNACIONAL** -> **ESTUDIANTE INTERESADO** -> **ACTUALIZA TU PERFIL**

Tutorial: <https://www.youtube.com/watch?v=Vnr9vVDgY1w>

It takes 16 working hours to validate it.

2. Once your profile has been validated, you can send your application at:

MITEC -> **MI EXPERIENCIA INTERNACIONAL** -> **ESTUDIANTE SOLICITANTE** -> **REALIZA TU SOLICITUD**

Code: EUA-5EVI-401A

Period: August - December 2024 (Preselección)

Tutorial: <https://www.youtube.com/watch?v=qdl18kp7DeI>

Key points:

- The preselection programs are not part of the regular application calendar for the study abroad and international exchange programs. Therefore, if this is the research abroad program you are most interested in, **EUA-5EVI-401A** is the only code you must register for on your application. You do not need to include any other program.
- Shortly after the application has been sent, you will receive an e-mail notification indicating you must accept a “pre-selection.” Please, consider this is only an automated status of the platform to continue with the next step and it is NOT the official selection of students. The International Programs Office will inform the official selection by e-mail on April 17, 2024.

3. Submit your documents:

MITEC -> MI EXPERIENCIA INTERNACIONAL -> ESTUDIANTE SOLICITANTE -> ENTREGA DE DOCUMENTOS DE ADMISIÓN

Once you have accepted the pre-selection status on the platform, you must submit the listed documents.

Application deadline: March 8, 2024

DOCUMENTS TO SUBMIT

Submit all documents in **PDF** format:

1. **Motivation letter.** Present a letter addressed as “Dear Professor” to explain the reasons and interest to participate in the project, and the contributions you might add; 1 page maximum in English.
2. **Curriculum Vitae.** Free format in English.
3. **English language proficiency certificate:** TOEFL iBT 80, TOEFL ITP 550, or IELTS 6.5 (current).
4. **2 letters of recommendation** in English issued by your teachers.
5. **Evidence of teamwork skills, leadership, and proactivity** (participation in student groups, social activities, representative teams, outstanding work done as a team leading the respective team, etc.) The evidence may be photos that include a brief description and/or a portfolio.
6. **Scanned copy of the passport.** It must be valid for at least 6 months after your return to Mexico.
7. **Project selection.** On this [format](#), the candidates are required to register to the project they are interested in according to their major.

Document submission deadline: March 8, 2024

Applications will not be accepted after the deadline, without exception. Incomplete documents will not be considered to participate in the program. Candidates with incomplete documentation will be disqualified.

SELECTION PROCESS

It is divided into two parts:

1. **Pre-selection by the Tec de Monterrey.** It involves a review of the files, an analysis, and evaluation of the candidates based on the documentation and requirements. Tec de Monterrey will send the pre-selected candidates’ files to the UIUC professors for the next phase.
2. **Selection by the researchers from UIUC.**
 - a. They will analyze each candidate's file.

- b. If selected for the interview, an appointment will be arranged with the URBANA-CHAMPAIGN researchers via video call in English.
- c. Report from URBANA-CHAMPAIGN leading researchers to the Tec de Monterrey delegate.

Once the selection process concludes, the selected students will receive an e-mail from the International Programs Office on April 17, 2024, and the instructions to complete the enrolment.

IMPORTANT: If your selection is not positive, you cannot postulate to another program as the last day to do so is March 28, 2024; besides, you cannot submit two applications on the International Programs platform simultaneously. Therefore, you will have to plan another academic activity for the next semester.

TO THE SELECTED STUDENTS

- Be fully aware that, as a selected student, you are representing this institution. Thus, in addition to complying with the norms and standards of the respective research center or laboratory, without exception, you will be obliged to always comply with the institutional values and the General Regulation of Students of Tec de Monterrey, which applies when the students of our institution are abroad.
- The commitment of the selected student to participate in the research project in an active and committed way, with an attitude of learning and contribution always.
- Under no circumstances the selected student will be able to seek additional work to support themselves during the stay. It is important to consider this point since it is a very serious matter for the immigration authorities of the United States.
- The work schedule will be defined by the mentors of the project in which they will participate and must be fully complied with.
- Due to the nature of the projects and the intellectual property involved, the student must sign a confidentiality agreement.
- The time will be determined by the URBANA-CHAMPAIGN researcher together with the Tec student, as well as any change in dates.
- Students must have sufficient funds to support themselves at URBANA-CHAMPAIGN for the duration of their stay. This call does not include funds for accommodation, food or any other type of expense derived from your research stay in the selected laboratory or center.
- Accepted students are expected to complete and pay for the corresponding visa process including any related fees that URBANA-CHAMPAIGN dictates.

REGISTRATION AND ACCREDITATION OF COURSES

The program has a minimum duration of 18 weeks. Students will be enrolled at Tecnológico de Monterrey in the academic period August - December 2024.

Students will enroll in 18 credits per semester. Students, in conjunction with the Academic Coordinator, should evaluate the transfer of the credits to the study plan before the student participates in the research abroad program.

The academic units (subjects) that will receive credits for the research abroad program must be defined and authorized by the Academic Coordinator. It is the student's responsibility to validate with the Academic Coordinator the availability of the academic units of the study plan to be accredited by the project they will participate in. Once this plan has been determined, students must complete their registration in the International Programs platform:

MITEC -> MI EXPERIENCIA INTERNACIONAL -> ESTUDIANTE SOLICITANTE -> REGISTRA TUS MATERIAS

A professor from Tec de Monterrey will evaluate the student's research abroad and grade the academic performance according to the [policy](#).

TUITION AND OTHER FEES

The tuition fee to be paid will be directly at the corresponding Tecnológico de Monterrey campus. Payment will be made according to the number of units/credits registered in the period of August - December 2024.

Selected students are required to pay the following fees:

- Participation fee: 1,600 MXN. Payment may be made in MiTec.
- University visa DS-2019 and GET services Processing Fee: 1260 USD in addition to visa fees paid to US Embassy.
- Campus Undergraduate Fees (w/Health Insurance Waiver): 1620 USD

In addition to the medical insurance a general liability insurance with a minimum coverage of 500,000 USD is required

In addition to covid 19 vaccine, the students should provide a certified translation of vaccination records according to the following guidelines: <https://mckinley.illinois.edu/new-students/new-student-faq>

ADDITIONAL INFORMATION

Any point not covered in this call will be resolved by the selection committee in conjunction with the proper authority of Tecnológico de Monterrey as the case may be. Please consider that this call is subject to change without notice; this might involve costs, projects, vacancies, dates, or any other. Any problem or doubt regarding the application process should be communicated promptly to the [International Programs Office at your campus](#).