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Undergraduate Research Program

Project Name	Monitoring of pharmaceutical contaminants in water reservoirs and residual domestic water
Campus & Location in Mexico	Monterrey
Faculty	Engineering and Sciences
Research Area	Bioprocess
Research Responsible	Oscar Alejandro Aguilar Jiménez
Description of the Project	The purpose of this project is to search for possible residuals of pharmaceutical compounds in residual water effluents that are the result of the excretion of massively consumed pharmaceutical compounds by the general population, given the prevalence of the main diseases in Mexican population. The detection will be via HPLC, GC, MS, etc. Sampling, treatment, analysis and results are different areas of participation for intl. students.
Training Provided	Safety in a research Lab, Analytical techniques and Sampling techniques if needed

Offered during:

SUMMER

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WINTER

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SEMESTER

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Student

Tasks/Responsibilities	Sampling, laboratory treatment of samples, instrumental analysis (training) and general lab activities
Required Language Proficiency	basic communication in English
Required Skills and Abilities	LAB experience (any: chemical, biotech, analytical, microbiological, etc) typical lab procedures: pipetting, liquid handling, solution preparation, HPLC (desired, not mandatory)
Other Documents	<ol style="list-style-type: none"> 2) Accumulative grade point average (GPA) 2.5 3) Official Transcript 4) 2 letters of recommendation of faculty members 5) Resume 6) Letter of intention explaining the reason why you would like to participate in the research program