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Undergraduate Research Program

Project Name	Decarbonization pathways for the industrial sector of Mexico: Nuevo Leon industrial powerhouse as a case study
Campus & Location in Mexico	Monterrey
Faculty	Engineering
Research Area	Energy and Climate Change
Research Responsible	Alberto Mendoza Domínguez
Description of the Project	Decarbonizing the industrial sector, particularly that related to energy-intensive industries such as steel, cement, glass, ceramics, etc., is a key discussion point if regions or countries attempt to follow a deep decarbonization pathway. Identifying plausible pathways is an ongoing conversation in developed countries. In developing countries, such as Mexico, it is a conversation that is urgent to advance and has the potential to help those economies to leapfrog and implement disruptive innovations. Our objective is to determine what technological pathways and public policy frameworks would be needed for a study case of a highly industrialized state for a developing country.
Training Provided	Analysis of scientific articles;Elaboration of theoretical framework;Scientific-based problem solving
Modality	Virtual
Offered During	Semester

Student

Tasks/Responsibilities	Literature review, baseline data development, basic engineering calculations, development of basic technological pathways including technological and economic feasibility, as well as impacts quantification
Required Language Proficiency	English (Advanced)

Required Skills and Abilities	Process engineering analysis, development of material/energy balances, engineering economics, thermodynamic analysis, emission factors knowledge
Other Documents Required to APPLY for an Internship	1) Being at least in your 2nd year of bachelor 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