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Contact Information:	studyinmexico@itesm.mx

Undergraduate Research Program

Project Name	Reduction of energy consumption associated with HVAC in office buildings (classrooms), guaranteeing air quality and comfort
Campus & Location in Mexico	Monterrey
Faculty	Engineering and Sciences
Research Area	Energy Consumption in Buildings and Dispersion of Pollutants
Research Responsible	Dr. José Ignacio Huertas Cardozo
Description of the Project	Use information technologies (sensors, information technologies, data in the cloud, big data analysis, internet of things) to minimize the consumption of air conditioning in office buildings (classrooms), guaranteeing comfort, minimum levels of air renewal , and indoor air quality.
Training Provided	sensors, information technologies, data in the cloud, big data analysis, internet of things

Offered during:

SUMMER

☒

WINTER

☐

SEMESTER

☒

Student

Tasks/Responsibilities	Diagnosis of the current state Recover and ensure the operation of the CO2 and temperature measurement modules Complete diagnostic analysis Complete research article
Required Language Proficiency	50% Spanish, 50%-English
Required Skills and Abilities	sensors, IAQ, HVAC systems
Other Documents	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