Tecnológico de Monterrey

STUDY IN MEXICO

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Undergraduate Research Program

Project Name	Design barriers to decrease pollutant exposure using CFD simulation
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	Design barriers located at the edge of roads to minimize exposure to pollutants of people living near these roads using CFD
Training Provided	ANSYS-CFD software, Matlab

Offered during:

SUMMER	X	WINTER		SEMESTER	X

Student

Tasks/Responsibilities	Contribute to the publication of paper on simulation of atmospheric stabilities. Set of CFD simulations varying position, height and geometry. Geometry optimization. Preparation of research article.
Required Language Proficiency	50% Spanish, 50% English
Required Skills and Abilities	Matlab, Excel, ANSYS Simulation
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