Web Page:	https://studyinmexico.tec.mx/
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Undergraduate Research Program

Project Name	Hyper-heuristics for combinatorial optimization problems
Campus & Location in Mexico	Monterrey
Faculty	Computer Science
Research Area	Optimization and numerical methods
Research Responsible	Iván Mauricio Amaya Contreras
Description of the Project	In this project, the researcher will focus on implementing optimization algorithms for combinatorial problems. Most of the time will be devoted to the development of novel solution techniques, known as hyper-heuristics, and to the writing of research manuscripts.
Training Provided	Fundamentals of modern optimization techniques Fundamentals of combinatorial optimization problems Overview of hyper-heuristics: models and applications Fundamentals of Matlab (programming skills required) First steps for writing research manuscripts

Offered during:

SUMMER	X	WINTER	X	SEMESTER	X

Student

Tasks/Responsibilities	Read scientific manuscripts Implement computer code in Matlab Run tests in Matlab Generate figures for analyzing test results Draft scientific manuscripts
Required Language Proficiency	English: B2
Required Skills and Abilities	Programming skills Desire to be involved in the path of research Skills on Microsoft Office tools (Excel, Powerpoint) or the kind Basic knowledge of Latex (unrequired but desired)
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