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Undergraduate Research Program

Project Name	Durability of concrete structures: Inspection and diagnosis of in-service structures and design new with durability criteria
Campus & Location in Mexico	Querétaro
Faculty	Civil Engineering and Architectue
Research Area	Construction Materials
Research Responsible	Andres Antonio Torres Acosta
Description of the Project	Use of several laboratory techniques to characterize in-service concrete structures and selecting possible additions to new concrete mixture design to improve durability as a function of environmental exposure
Training Provided	Use of laboratory equipments to determine durability indices such as electrical resistivity, percent void content, water capillary absorption, compressive and/or flexure tests.

Offered during:

SUMMER

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WINTER

☐

SEMESTER

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Student

Tasks/Responsibilities	Prepare concrete mixtures to fabricate specimens for testing. Perform laboratory testing with concrete specimens fabricated. Perform building and/or bridge inspection and evaluation.
Required Language Proficiency	Spanish or English
Required Skills and Abilities	Interested in laboratory characterization of construction materials. Use of Microsoft Office for report preparation (text, tables, and figures). Good writing for technical reports in English. Training on the use of all laboratory equipment will be obtained in Campus.
Other Documents	<ol style="list-style-type: none"> 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