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Undergraduate Research Program

Project Name	Calibration of the resolution of 3d printers (FFF and SLA)
Campus & Location in Mexico	Querétaro
Faculty	Mechanical and Advanced Materials Department
Research Area	Materials Science
Research Responsible	Cecilia Daniela Treviño Quintanilla
Description of the Project	A phenomenon in the geometry of lattice structures printed by FFF and SLA has been observed. The purpose of this project is to understand the phenomenon and found the effects of the printing parameters in the variation of the diameters and cross-sectional areas in the printed structures.
Training Provided	Materials science, use of different types of additive manufacturing techniques.

Offered during:

SUMMER

WINTER

SEMESTER

Student

Tasks/Responsibilities	Make a statistical analysis to understand the resolution in the printer. Support to graduate students in their research projects. Apply a methodology to calibrate the equipments. Write a technical report and a scientific poster.
Required Language Proficiency	English
Required Skills and Abilities	Materials science. Responsibility and discipline
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