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Undergraduate Research Program

Project Name	3D-printed Microfluidic lab-on-a-chip based on immune-electrochemical sensing for cancer biomarkers detection
Campus & Location in Mexico	Monterrey
Faculty	Engineering and Sciences
Research Area	Biosensors and nanodevices
Research Responsible	Dr. Oscar Alejandro Aguilar Jiménez
Description of the Project	We are interested on the development of novel microfluidic electrochemical sensing and biosensing platforms based on fabrication techniques like 3D-printing for the detection of different biomarkers with high potential applications in clinical diagnosis of diseases
Training Provided	3D-printing, electrochemistry, materials, biosensor fabrication

Offered during:

SUMMER

WINTER

SEMESTER

Student

Tasks/Responsibilities	Design and fabrication of microfluidic platforms, material characterization, surface modification
Required Language Proficiency	Medium (able to communicate)
Required Skills and Abilities	Lab skills, basics of chemistry (desired), CAD design and electrochemistry (general principles)
Other Documents	<ol style="list-style-type: none"> 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