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### Undergraduate Research Program

<b>Project Name</b>	3D-printed Microfluidic lab-on-a-chip based on immune-electrochemical sensing for cancer biomarkers detection
<b>Campus &amp; Location in Mexico</b>	Monterrey
<b>Faculty</b>	Engineering and Sciences
<b>Research Area</b>	Biosensors and nanodevices
<b>Research Responsible</b>	Dr. Oscar Alejandro Aguilar Jiménez
<b>Description of the Project</b>	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
<b>Training Provided</b>	3D-printing, electrochemistry, materials, biosensor fabrication

### Offered during:

SUMMER

☒

WINTER

☐

SEMESTER

☒

### Student

<b>Tasks/Responsibilities</b>	Design and fabrication of microfluidic platforms, material characterization, surface modification
<b>Required Language Proficiency</b>	Medium (able to communicate)
<b>Required Skills and Abilities</b>	Lab skills, basics of chemistry (desired), CAD design and electrochemistry (general principles)
<b>Other Documents</b>	<ol style="list-style-type: none"> <li>2) Accumulative grade point average (GPA) 2.5</li> <li>3) Official Transcript</li> <li>4) 2 letters of recommendation of faculty members</li> <li>5) Resume</li> <li>6) Letter of intention explaining the reason why you would like to participate in the research program</li> </ol>