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### Undergraduate Research Program

<b>Project Name</b>	Effect of Instant Controlled Pressure Drop (DIC) on the phytochemicals of legumes and fruits
<b>Campus &amp; Location in Mexico</b>	Querétaro
<b>Faculty</b>	Engineering and Sciences
<b>Research Area</b>	Bioengineering: Nutraceutical compounds analysis
<b>Research Responsible</b>	Ma Anaberta Cardador Martí-nez
<b>Description of the Project</b>	Extraction and quantifications of phytochemicals such as phenolics, flavonoids, oligosaccharides, phytates among others from legume seeds previously treated with DIC. Evaluation antioxidant capacity of phenolic compounds by means of DPPH and ABTS methods. Statistical analysis and interpretation of the results.
<b>Training Provided</b>	Yes, about spectrophotometry and liquid chromatography.

### Offered during:

SUMMER

☐

WINTER

☐

SEMESTER

☒

### Student

<b>Tasks/Responsibilities</b>	To extract phytochemicals, analyze them and analyze the antioxidant capacity.
<b>Required Language Proficiency</b>	English. Spanish may be needed to communicate outside the Campus.
<b>Required Skills and Abilities</b>	Basic knowledge of chemistry laboratory.
<b>Other Documents</b>	<ol style="list-style-type: none"> <li>1) Being at least in your 2nd year of bachelor</li> <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>