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Undergraduate Research Program	
<b>Project Name</b>	Preparation of Hierarchic Carbon Nanomaterials by Polymers and Natural Fibers Waste Upcycling
<b>Campus &amp; Location in Mexico</b>	Monterrey
<b>Faculty</b>	Engineering
<b>Research Area</b>	Nanomaterials
<b>Research Responsible</b>	Yadira I. Vega-Cantú
<b>Description of the Project</b>	In this project post-consume polymer and natural fiber waste will be used to prepare nanofibres enriched with carbon nanotubes by electrospinning; this product will be transformed in a hierarchic all carbon network by pyrolysis. This carbon material can be decorated with metallic nanoparticles for diverse applications. Produced materials will be characterized by SEM, TGA, FTIR and Raman spectroscopy
<b>Training Provided</b>	Academic manuscript development;Elaboration / execution of projects;International collaboration networks
<b>Modality</b>	In Person
<b>Offered During</b>	Summer (5 weeks);Winter (5 weeks);Semester

Student	
<b>Tasks/Responsibilities</b>	Laboratory work, preparation of carbon nanomaterials, literature search and analysis, seminar / poster presentations, participation in group and personal meetings with advisor, report writing, team work
<b>Required Language Proficiency</b>	English (Medium)
<b>Required Skills and Abilities</b>	basic chemistry skills, experience in laboratory work, previous knowledge of chemistry lab safety policies
<b>Other Documents Required to APPLY for an Internship</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>

