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### Undergraduate Research Program

<b>Project Name</b>	A Hybrid solar lighting system
<b>Campus &amp; Location in Mexico</b>	Monterrey
<b>Faculty</b>	Engineering and Sciences
<b>Research Area</b>	Energy Consumption in Buildings and Dispersion of Pollutants
<b>Research Responsible</b>	Dr. José Ignacio Huertas Cardozo
<b>Description of the Project</b>	Develop a hybrid system of solar lighting + generation of electrical energy + generation of thermal energy that is sustainable (economic, environmental and social) for any sector in Mexico. Phase 1: Implement a demonstration solar lighting system in the E3 laboratory
<b>Training Provided</b>	fiber optics, sensors, lighting software, internet of things

#### Offered during:

SUMMER

WINTER

SEMESTER

### Student

<b>Tasks/Responsibilities</b>	Design the solar lighting system Review components available on the market Evaluate / Monitor the performance of the system Identify opportunities for improvement Identify applications where this technology is economically attractive Report
<b>Required Language Proficiency</b>	50% Spanish, 50%-English
<b>Required Skills and Abilities</b>	Lighting systems, fiber optics, sensors
<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>