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| Web Page: | https://studyinmexico.tec.mx/ |
| Contact Information: | studyinmexico@itesm.mx |

Undergraduate Research Program

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| Project Name | A Hybrid solar lighting system |
| Campus & Location in Mexico | Monterrey |
| Faculty | Engineering and Sciences |
| Research Area | Energy Consumption in Buildings and Dispersion of Pollutants |
| Research Responsible | Dr. José Ignacio Huertas Cardozo |
| Description of the Project | 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 |
| Training Provided | fiber optics, sensors, lighting software, internet of things |

Offered during:

SUMMER

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WINTER

☐

SEMESTER

☒

Student

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| Tasks/Responsibilities | 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 |
| Required Language Proficiency | 50% Spanish, 50%-English |
| Required Skills and Abilities | Lighting systems, fiber optics, sensors |
| Other Documents | <ol style="list-style-type: none"> 1) Being at least in your 2nd year of bachelor 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 |