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Undergraduate Research Program	
Project Name	Organic Rankine Cycles to recover waste-heat
Campus & Location in Mexico	Guadalajara
Faculty	Engineering
Research Area	Energy and Climate Change
Research Responsible	David Antonio Buentello Montoya
Description of the Project	Waste heat is generated during most productive processes, leading to a opportunity for development and process improvement, and energy savings are a priority for most industries. For this reason, it is important to understand the related phenomena, based either on laboratory experiments or simulations. In this project you will work in analyzing a concept for a waste-heat recovery system using an Organic-Rankine cycle. The analysis can be conducted using either process- modelling software or CFD. During the analysis, the student is expected to develop software and scientific skills; training for the software will be provided.
Training Provided	Academic manuscript development;Analysis of scientific articles;Scientific-based problem solving
Modality	Hybrid
Offered During	Summer (5 weeks)

Student		
Tasks/Responsibilities	Read articles, conduct simulations, perform result analysis	
Required Language Proficiency	English (Medium);English (Advanced)	
Required Skills and Abilities	The student should have knowledge in heat transfer and thermodynamics. Although not mandatory, knowledge in CFD or software such as Aspen is desirable.	
Other Documents Required to APPLY for an Internship	<ol> <li>Being at least in your 2nd year of bachelor</li> <li>Accumulative grade point average (GPA) 2.5</li> <li>Official Transcript</li> <li>2 letters of recommendation of faculty members</li> <li>Resume</li> </ol>	

6) Letter of intention explaining the reason why you would
like to participate in the research program