

ROLE DOCUMENT - ELECTRIC AND HYBRID VEHICLES LAB		
REQUIREMENTS	Minimum Qualification	ME/MTech or BE/BTech with work experience
	Technical Knowledge	<p><b>"Must have":</b></p> <ol style="list-style-type: none"> <li>1. Technical knowledge: Electric vehicle fundamentals – knowledge of the powertrain components like motor, battery, charging systems and power electronics</li> <li>2. Software and tools: MATLAB/Simulink, HIL, SIL and MIL implementation using microcontrollers</li> <li>3. Instructional Skills: <ol style="list-style-type: none"> <li>a. Delivery of experiments – curating and delivering lab lectures</li> <li>b. Hands on demonstration of lab experiments</li> <li>c. Assessment and feedback of lab assignment</li> </ol> </li> </ol> <p><b>"Good to have":</b></p> <ol style="list-style-type: none"> <li>1. 1-2 years of industry experience in relevant area.</li> </ol>
	Behavioral Competencies	Effective communicator, ability to coordinate and resolve conflicts, good team player
PURPOSE	<ol style="list-style-type: none"> <li>1. Develop, deploy and maintain WILP labs in the areas of Additive manufacturing</li> <li>2. Support student learning as per the course/ program requirement - requires scheduling and conducting labs, and evaluation</li> </ol>	
KEY RESPONSIBILITIES		<b>AREAS OF RESPONSIBILITY (Key Activities)</b>
		<b>Lab deployment</b>
	1	Deploy labs to the WILP students as per the course requirement and assess the lab components ontime under the guidance of course faculty
		<b>Lab development</b>
	2	<ol style="list-style-type: none"> <li>1. Lab development in emerging areas of Additive Manufacturing - support the responsible faculty and the Experiential Learning Lead (ELL) from initiation, through proposal, procurement, commissioning, installation and development</li> <li>2. Develop lab exercises under the guidance of course faculty</li> <li>3. Support the creation of audio-visuals for marketing/training purposes</li> </ol>
		<b>Lab maintenance</b>
	3	Work with the Experiential Learning Lead (ELL) and the respective lab faculty for maintenance of lab equipment, and upkeep of software licenses
		<b>Student support</b>
	4	Prompt resolution of student queries related to labs