

# Research Student Specification

<b>Studentship Ref Number</b>	<b>RS/19/</b>	<b>Closing Date:</b>	<b>31/10/2020</b>
Project Title:	On-line lubricant degradation monitoring by vapour phase analysis		
School:	Engineering		
Contact:	Dr Mara Bernabei Email: <a href="mailto:mbernabei@uclan.ac.uk">mbernabei@uclan.ac.uk</a> Phone: +44 (0)1772893215		

<b>Attributes</b>	<b>Essential</b>	<b>Desirable</b>	<b>Measured By</b>
Education/ Qualifications	<p>Minimum UK/European Bachelor's degree (or equivalent qualification) at 2:1 or above in Electronics Engineering (preferred), Chemical Engineering, Mechatronics Engineering, physics or other relevant STEM subject.</p> <p>EU/International applicants require English language level of UKVI IELTS 6.5 (no sub-score less than 6.0)</p>	MSc or Meng in in Electronics Engineering (preferred), Chemical Engineering, Mechatronics Engineering, physics or other relevant STEM subject.	<p>Application /Certificate</p> <p>Application/ Certificate</p>
Experience	<p>Demonstrable experience of:</p> <ul style="list-style-type: none"> <li>• Electronics</li> <li>• Engineering design</li> <li>• Experimental study in Engineering physics</li> <li>• capability with interfacing tools (e.g. LabVIEW)</li> </ul>	<p>Hands-on experience in</p> <ul style="list-style-type: none"> <li>• gas sensor systems</li> <li>• electronic circuit design</li> <li>• multivariate data analysis</li> <li>• Microcontroller and embedded systems design and implementation</li> <li>• Mass spectrometry and associated data analysis</li> </ul>	Application/Interview

Skills/Abilities	<p>Good analytical and programming skills</p> <p>Good communication/interpersonal skills.</p> <p>Good presentation and writing skills</p> <p>Self-motivated</p> <p>Ability to work alone</p>	Evidence of independent research work	<p>Application/Interview</p> <p>Application/Interview</p> <p>Application/Interview</p> <p>Application/Interview</p> <p>Application/Interview</p>
Personal Details	Effective time management and prioritisation of work.		Application/Interview/references