



# UNIVERSITY OF PLYMOUTH

**Role:** Lecturer

**Faculty and School:** Faculty of Science & Engineering  
School of Computing, Electronics & Mathematics

**Career Pathway:** Balanced

**Grade:** 7

**Reports to:** *Head of School*

**Role Purpose:**

To undertake research and teaching in line with University/School’s strategy and to carry out leadership, management and engagement activities.

All activities undertaken within this role will be compliant with the University’s policies, including Health & Safety, Equality and Diversity, Ethics, Data Protection etc,

Key Accountabilities/Primary Responsibilities:	Indicators of Success:
<p><b>Research and Enterprise:</b></p> <ul style="list-style-type: none"> <li>• Engage in the development of research objectives, projects and proposals, conducting research individually or collaboratively and ensuring that the outputs of research are used to enhance teaching where relevant.</li> <li>• Identify suitable sources of funding and contribute to the process of securing funds.</li> <li>• Develop a national and international reputation for research, including thorough and regular dissemination and explanation of high quality findings through internationally-leading peer reviewed publications.</li> <li>• Represent the School/Faculty/University externally in relevant research communities contributing to the field and the University’s profile within it.</li> <li>• Develop and sustain links with relevant industries and organisations to grow collaborations, employability and funding support.</li> <li>• Where relevant, contribute to enterprise in the University, drawing on internal and external partnerships. Develop ideas for generating income and promoting a subject area and contribute to the process of securing.</li> <li>• Participate in research supervision and pastoral support for undergraduate and postgraduate students.</li> </ul>	<ul style="list-style-type: none"> <li>• Research group, Faculty, School and University reputation</li> <li>• Individual contribution to the REF and external review of outputs</li> <li>• High quality research outputs as judged by accepted standards of excellence in relevant discipline</li> <li>• Levels of external funding secured that include a proportion of PI level funding</li> <li>• Peer review</li> <li>• External profile and reputation including external invitations</li> <li>• Personal Development Review (PDR) feedback</li> <li>• Research student satisfaction survey outputs</li> </ul>

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- Grade 7 and 8 represent points on a continuum. Individuals on Grade 7 roles will have the opportunity to progress to Grade 8 once they are sufficiently experienced in all elements of the role and upon achievement of any necessary formal qualifications/training agreed upon appointment (such as achieving PGCAP).

	<ul style="list-style-type: none"> <li>• Research student studentship completion rates</li> <li>• Staff turnover and satisfaction rates</li> </ul>
<p><b>Education/Teaching:</b></p> <ul style="list-style-type: none"> <li>• Deliver teaching of the highest quality across a range of modules and to all levels, through lectures, tutorials, practicals and seminars and participate in field trips.</li> <li>• Contribute to delivery nationally and internationally as appropriate and in line with University policies and guidelines.</li> <li>• Provide pastoral care (through the role of personal tutor where appropriate).</li> <li>• Supervise students on projects, field trips, placements, including where appropriate in clinical or professional practice Ensuring that a high quality learning and research environment is provided.</li> <li>• Set and mark coursework and exams within required timescales, and provide constructive feedback to students in line with University guidelines/policy.</li> <li>• Engage with relevant professional bodies, organisations and industries to support their work and inform teaching to enhance the student experience and student employability.</li> <li>• Contribute to the development of new programmes of study.</li> <li>• Monitor, evaluate and review course and programme design ensuring suitable for on-campus and distance learning delivery, and revise as necessary to ensure excellence and coherence. Identify areas of existing provision in need of revision or improvement and take forward as appropriate.</li> <li>• Develop and promote innovative teaching and learning approaches, media and material, which create interest, understanding and enthusiasm amongst students.</li> </ul>	<ul style="list-style-type: none"> <li>• Student satisfaction survey outputs</li> <li>• Student recruitment outcomes</li> <li>• Student completion rates</li> <li>• Student learning outcomes</li> <li>• Module evaluations</li> <li>• Teaching observation and peer review</li> <li>• Compliance of courses with regulation</li> <li>• PDR feedback</li> </ul>
<p><b>Leadership, Management and Engagement:</b></p> <ul style="list-style-type: none"> <li>• Work as a team member, developing productive relationships with colleagues and leading modules, programmes and activities where appropriate.</li> <li>• Manage administrative tasks as appropriate relating to research, enterprise, education and teaching, including risk assessment of activities and contribute to project meetings and report writing.</li> <li>• Actively participate in national/international recruitment and marketing activities in the School and other student events as appropriate.</li> <li>• Participate in and develop external networks and build the reputation of the organisation through disseminating learning through appropriate fora.</li> </ul>	<ul style="list-style-type: none"> <li>• Staff satisfaction surveys</li> <li>• Staff turnover</li> <li>• Student learning outcomes</li> <li>• Student satisfaction survey outputs</li> <li>• PDR feedback</li> <li>• Research group, Faculty, School and University reputation</li> <li>• Teaching observation and peer review</li> <li>• Profile in the practice area</li> <li>• Participation in relevant Institutes and Societies</li> <li>• Collaboration with industry partners</li> </ul>

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## PERSON SPECIFICATION

Criteria	Essential	Desirable	Point at which information used in recruitment process
<p><b>Knowledge, Education and Training:</b></p> <ul style="list-style-type: none"> <li>• PhD or equivalent international qualification or commensurate level of recognition /international profile in a relevant discipline (such as <b>Electrical / Electronic Engineering</b>)</li> <li>• In-depth knowledge of Power Electronics sufficient to enable innovation and new understanding in the field.</li> <li>• Recognised HE teaching qualification or Fellowship of HEA, or ability to gain this within a defined timescale, usually within 2 years from the date of appointment</li> <li>• A solid foundation of the underlying principles and <b>practice</b> in Power Electronics and Renewable Energy</li> <li>• Modelling, analysis and design of power electronics-based distribution systems with energy storage</li> <li>• Knowledge of coupling renewable energy sources to the electricity grid and the quality of the supply</li> <li>• Programming skills (e.g. C, etc.) specifically devoted to DSP and/or real-time controller</li> </ul>	<p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p>	<p>X</p> <p>X</p>	<p><u>Shortlisting</u></p>
<p><b>Experience:</b></p> <ul style="list-style-type: none"> <li>• Experience of delivering high quality research led teaching at undergraduate and/or postgraduate level.</li> <li>• Able to demonstrate the delivery of high quality research outputs at the appropriate quality level for the discipline and has developed, or has clear plans to develop, impact within area of research.</li> <li>• Experience of excellent research supervision and/or research mentorship.</li> <li>• Contributed successfully to research projects, grant applications, and developing collaborative research networks.</li> <li>• Able to support Hardware and Software Electronics projects</li> <li>• Previous experience of using power circuit simulation tools (e.g. Matlab/LTSpice)</li> </ul>	<p>X</p> <p>X</p> <p>X</p> <p>X</p>	<p>X</p> <p>X</p> <p>X</p>	<p><u>Shortlisting and interview</u></p>

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<ul style="list-style-type: none"> <li>• Previous experience of power converter design and prototyping</li> <li>• Relevant industrial experience</li> </ul>		X	
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