

# Job Description & Person Specification

Academic and Research roles

## JOB DESCRIPTION

<b>Job title</b>	Lecturer in Physics
<b>School/Department</b>	School of Computing, Engineering, and Physical Sciences
<b>Division (if applicable)</b>	Division of Physical Sciences
<b>Programme (if applicable)</b>	Joint UWS-CUST Programme in Physics/Optoelectronics BSc (Hons) Physics
<b>Location</b>	Paisley Campus with teaching in China
<b>Reporting to</b>	Head of Division or nominated representative
<b>UWS grade</b>	Ac3
<b>FTE</b>	1.0

### Job summary

The postholder will have a relevant undergraduate degree and will be qualified to doctoral level. The postholder will play a central role in delivering an excellent and research-based student experience. The postholder will be engaged in the development of educational thinking, practice, and research in the broad areas of curriculum design, learning and teaching and assessment. The postholder will be knowledgeable in contemporary pedagogies and be familiar with online learning environments and the principles of digital education. The postholder will join the Institute of Thin Films, Sensors & Imaging (ITFSI) and will produce and publish excellent research outputs related to ITFSI Institute research themes and commensurate with the stage of career and evidence an ability to attract independent research funding to support this work.

In addition to teaching at UWS, a significant part of the post will be the delivery of modules in China, on a joint programme covering physics and optoelectronics. As such, the postholder will have expertise in the area of physics, optoelectronics, thin-film technology or a closely related area. The postholder will also conduct high-quality research aligned to this area of expertise.

The School of Computing, Engineering and Physical Sciences is a multi-discipline School and the postholder will be engaged in cross/interdisciplinary working and programme design and development to support positive results in attainment, student experience and graduate destinations.

The postholder will possess developed capabilities in collaborative working and be committed to high professional standards in all areas of responsibility. The post offers an excellent opportunity for an individual to be immersed in a rich academic environment that recognises quality in education, research and enterprise, and international engagement.

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## People & finance responsibilities

<b>People</b>	The post may carry a leadership and/or coordinating role. This will not normally include line management of other academic staff but may include line management of research staff such as postdoctoral research assistants. One of the responsibilities of the post is supervision of PhD students.
<b>Finance</b>	The post may carry responsibility for personally awarded grants.

## Key activities

<p>With regard to teaching.</p> <ul style="list-style-type: none"> <li>• Design and deliver excellent learning and teaching in physics and subjects related to optoelectronics and thin-film technology.</li> <li>• Use appropriate teaching, learning support and assessment methods in relevant subject areas.</li> <li>• Contribute to the development, validation, and review of programmes of study.</li> <li>• Design and use appropriate assessment instruments and criteria, assess the work and progress of students by reference to the criteria, and provide constructive feedback to students.</li> <li>• Undertake module administration and coordination roles.</li> <li>• Participate in quality assurance and enhancement initiatives in collaboration with academic and professional-services colleagues.</li> <li>• Maintain appropriate scholarship activity to ensure research-informed teaching can be delivered where appropriate.</li> <li>• Seek ways of improving performance by reflecting on teaching design and delivery and obtaining and analysing feedback.</li> </ul> <p>With regard to research and enterprise.</p> <ul style="list-style-type: none"> <li>• Undertake high-quality original research within ITFSI and disseminate results through frequent publications in high-impact journals.</li> <li>• Apply as principal or co-investigator to appropriate research-funding bodies and manage grants awarded.</li> <li>• Supervise research students and staff as required, providing direction, support, and guidance</li> <li>• Develop and contribute to enterprise activities including continuous professional development opportunities or consultancy.</li> <li>• Engage in knowledge-transfer activities</li> </ul>
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## Job scope

<b>Planning and organising</b>	<ul style="list-style-type: none"> <li>• Plan own teaching as agreed with academic line manager, as appropriate.</li> <li>• Manage own research, teaching, scholarly, and administrative activities with guidance, if required.</li> <li>• Supervise students' projects and, as appropriate, fieldwork and placements.</li> <li>• Use research and teaching resources and facilities, as appropriate.</li> <li>• Balance the pressures of teaching, research, and administrative demands and competing deadlines, seeking guidance in unusual circumstances.</li> <li>• Contribute to the School's co-ordination of programmes/courses through, for example, Module Coordinator/responsibilities and/or to the leadership and administration of programmes.</li> <li>• Contribute to student recruitment and marketing initiatives.</li> <li>• Manage projects relating to own areas of work and the organisation of external activities as appropriate.</li> </ul>
<b>Decision making</b>	<ul style="list-style-type: none"> <li>• Identify the need for developing the content or structure of modules with colleagues and make proposals on how this should be achieved.</li> <li>• Develop ideas for generating income and promoting physics and subjects related to physics.</li> <li>• Develop ideas and find ways of disseminating and applying the result of research and scholarship.</li> <li>• Advise others on strategic issues such as student recruitment and marketing.</li> <li>• Contribute to the accreditation of courses and quality-assurance processes.</li> </ul>
<b>Working relationships – <i>Liaison and Networking</i></b>	<ul style="list-style-type: none"> <li>• Participate in and develop internal and external networks with colleagues and students, e.g., contribute to the identification of sources of funding, contribute to student recruitment, secure student placements, contribute to the marketing of the institution, facilitate outreach work, generate income, obtain consultancy projects, or build relationships for future activities.</li> </ul>
<b>Working relationships – <i>Communication</i></b>	<ul style="list-style-type: none"> <li>• Routinely communicate complex and conceptual ideas.</li> <li>• Communicate with appropriate colleagues and external contacts according to the nature of the role.</li> </ul>
<b>Working relationships – <i>Teamwork</i></b>	<ul style="list-style-type: none"> <li>• Act as a responsible team member and develop productive working relationships with other members of staff.</li> <li>• May be required to take a lead in academic or related activities.</li> </ul>

**Working  
relationships –  
*Pastoral Care***

- Responsible for the pastoral care of students within a specified area.
- Act as Personal Tutor or Personal Academic Advisor.

# PERSON SPECIFICATION

## Qualifications

			Evidence A = Application I = Interview
Essential	QE1 QE2	<ul style="list-style-type: none"> <li>Undergraduate degree in physics or a closely related subject.</li> <li>PhD in Physics or a closely related subject.</li> </ul>	
Desirable	QD1 QD2	<ul style="list-style-type: none"> <li>Postgraduate qualification in teaching and learning.</li> <li>Advance HE Fellowship or equivalent.</li> </ul>	

## Experience

			Evidence A = Application I = Interview
Essential	EE1 EE2	<ul style="list-style-type: none"> <li>Experience of learning, teaching and assessment in higher education.</li> <li>Knowledge and understanding of contemporary pedagogies.</li> <li>Research publications commensurate with career stage (including 3/4* research outputs).</li> <li>Experience in module/programme administration.</li> <li>Experience in designing and delivering co-creative and active learning and assessment.</li> <li>Familiarity with online learning environments and the principles of digital education.</li> </ul>	
Desirable	ED1 ED2	<ul style="list-style-type: none"> <li>Knowledge and understanding of contemporary pedagogies and educational practice.</li> <li>Experience in designing and delivering co-creative and active learning and assessment.</li> <li>Engagement with the academic community, including in relation to outreach and recruitment.</li> </ul>	

## Skills

			Evidence A = Application I = Interview
Essential	SE1 SE2	<ul style="list-style-type: none"> <li>Ability to work creatively and collaboratively with colleagues and students.</li> <li>Good communication and presentation skills.</li> <li>Ability to write in scientific English to an appropriate level.</li> </ul>	
Desirable	SD1 SD2	<ul style="list-style-type: none"> <li>Ability to teach students from different cultures and with different backgrounds.</li> <li>Ability to secure funding for research and enterprise activities.</li> </ul>	

## Knowledge

			<b>Evidence</b> A = Application I = Interview
<b>Essential</b>	KE1 KE2	<ul style="list-style-type: none"> <li>Specialist knowledge and understanding of physics or a related area to work within established teaching and research programmes.</li> <li>Knowledge and understanding of contemporary pedagogies and educational practice.</li> </ul>	
<b>Desirable</b>	KD1 KD2	<ul style="list-style-type: none"> <li>Knowledge and understanding of interdisciplinarity and interdisciplinary methodologies and methods.</li> <li>Knowledge of Chinese language, culture, and education</li> </ul>	

## Behaviours

			<b>Evidence</b> A = Application I = Interview
<b>Essential</b>	BE1 BE2	<ul style="list-style-type: none"> <li>Willingness to teach in China for periods up to several months, several times per year.</li> <li>Vision, drive and determination to succeed.</li> <li>Ability to facilitate the development of working networks both internally and externally.</li> <li>Ability to work alone and as part of a team.</li> <li>Willingness to embrace responsibility</li> <li>Commitment to work in a multi discipline environment.</li> </ul>	
<b>Desirable</b>	BD1 BD2	<ul style="list-style-type: none"> <li>Willingness to put forward and develop ideas for new modules and programmes.</li> <li>Self-awareness and a willingness to undertake personal development.</li> </ul>	

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