

UNIVERSITY OF SOUTH WALES
PRIFYSGOL DE CYMRU

Faculty of Computing, Engineering and Science

Senior Lecturer in Analytical Toxicology

Grade G*, £42,792 - £49,553 per annum

*appointment will be made to the minimum of the scale

Permanent Contract

External Vacancy

The School of Applied Sciences is seeking to appoint a Senior Lecturer in Analytical Toxicology.

The successful candidate will utilise previous experience of service or academic delivery in this area drawing upon their knowledge and abilities in analytical toxicology, laboratory-based quality management systems and data interpretation and reporting processes to successfully design, coordinate, and deliver modules and extensive practical experience to undergraduate and postgraduate students specifically in this and related subject areas. Previous experience of an industry/working environment in these areas is essential. Candidates will also be expected to have experience of the use of analytical instrumentation used in the field of analytical toxicology, a deep understanding of the science of toxicology, specimens and standard operating procedures used in the field, plus laboratory regulation and governance processes with the ability to train students across the academic levels.

As a Senior Lecturer at USW, the successful candidate will be expected to develop learning materials and research in line with professional body requirements, the successful candidate's own experience, and through engaging with external organisations and companies to secure opportunities for research and student learning. The role will also require delivery of training in a wider range of common analytical techniques such as chromatographic and spectroscopic analysis, particularly related to forensic and criminal investigation, but also to students in other related subject areas.

The successful candidate will also assume the responsibilities of Course Leadership of our flagship BSc/MSci Forensic Science course acting as a figurehead both internally and externally with overall responsibility for the recruitment, retention, progression, personal development and employability of students as well as quality and quality assurance monitoring

of the course. Therefore, previous experience in the above or in a related capacity is desirable as is the knowledge and understanding of quality and standards in this field of education.

The successful candidate would be expected to be involved in Research and Scholarly Activity, and this engagement would deliver evidence, practice and research-based learning within the curriculum, and produce research-based outputs (e.g. research articles, publication proceedings etc). It would be anticipated that the candidate would engage with one or both of the School of Applied Sciences' Research Groups in Physical and Analytical Sciences and Biological Sciences and seek to collaborate internally and externally on relevant projects.

The successful candidate will join a team of academic staff and current and ex-forensic practitioners in the Forensic and Analytical Science subject area, who are involved in the education and skills-based training of a large number of students who are aiming to enter the world of work as forensic scientists or within roles in the criminal justice system, and work closely with colleagues in the academic subject area of Chemistry and Pharmaceutical Science.

This position is based at the Pontypridd (Glyntaff) Campus of the University of South Wales.

The terms and conditions of the post (including grade and salary) will be those of the University of South Wales.

START DATE: This post is likely to commence in January 2020 but may be available for commencement earlier.

JOB DESCRIPTION

Title: Senior Lecturer in Analytical Toxicology
Type of Contract: Permanent
Grade: G
Responsible to: Academic Subject Manager – Forensic and Analytical Sciences
<p>Responsible for:</p> <p>Leading the design and delivery of a wide range of modules in the field of analytical and general toxicology and quality in the analytical laboratory.</p> <p>Course Leadership of the BSc/MSci Forensic Science course including the recruitment, retention, progression and employability of students, quality assurance and enhancement of the course and the design and management of performance indicator and subject health-based action plans.</p> <p>The generation of outputs from research and scholarly activity in the above areas.</p>
<p>Main Purpose of the Job:</p> <ol style="list-style-type: none"> 1. To utilise their expertise in the fields of analytical toxicology and quality in the forensic laboratory to: design and deliver teaching and assessment and be responsible for curriculum development in this field; to engage externally with relevant authorities and service providers to ensure the curriculum is relevant, innovative and meets the requirements of professional bodies and the employment sector; to lead on the skills and career development of students in the areas of analytical toxicology, laboratory management systems and quality. 2. To work in the capacity of Course Leader for the BSc/MSci Forensic Science course (plus any other courses assigned by the Academic Subject Manager) acting as a figurehead for the course internally and externally, and being responsible for the quality of the course through quality assurance reviews and enhancement processes and leading on issues such as recruitment, retention and progression of students, skills and career development of students in the areas of analytical toxicology, laboratory management systems and quality 3. Contribute more generally to the delivery of a wider range of crime investigation and analytical science based modules, especially within the field of forensic chemistry and undertake administrative duties as associated with the roles of the Module Leader.

4. To lead on the marketing of the BSc/MSci Forensic Science course and to work as part of a team responsible for the recruitment and progression of students from schools and colleges, and from USW's collaborative partners.
5. To engage extensively in external engagement with the forensic science service sector, and to secure opportunities for collaboration, research, student projects, student placements and other learning experiences.
6. To engage in applied research and potential income generation with a principle focus upon analytical toxicology or broader forensic science disciplines.

Principal Duties and Responsibilities:

Teaching and Learning

- Demonstrate innovative approaches to teaching, learning and assessment through use of a wide range of learning resources and appropriate pedagogic practice
- Ensure that your teaching is informed by contemporary research in the relevant field and develops the ability of students to engage in debate, critical discourse and rational thinking
- Reflect critically on your own teaching practice, implement improvements, disseminate good practice to others and engage actively with the quality monitoring and enhancement processes and with professional accreditation processes as appropriate
- Ensure that students have an effective learning experience by providing high quality academic guidance and advice and by enhancing their employability
- Supervise undergraduate and postgraduate research in the principal area of analytical toxicology, demonstrating a mastery of practical skill in this particular area and a knowledge of current and future quality and governance processes.

Scholarly Activity, Research and Income Generation

- Extend, transform and apply knowledge acquired from scholarship to learning, research and appropriate external activities
- Make a substantial contribution to bids and tenders for external projects or contracts
- Enhance your academic practice by engaging in one or more of the following activities
 - Write or contribute to publications in peer reviewed journals
 - Disseminate academic work/ research findings via presentations at conferences/ exhibitions or other appropriate events
 - Work with a range of external partners and professional bodies/agencies nationally and internationally
 - Supervise research students
- Contribute to the promotion and external profile of the University and adopt a customer/client-focused approach where appropriate

Student Experience

- To promote and implement initiatives, working practices and similar that enhance the student experience
- To recognise the critical nature of the National Student Survey (and other league tables) and ensure a positive approach to improving the student experience at all times
- To lead course initiatives that will result in a positive impact on the NSS and general student experience

Leadership and Management

- To act as the Course Leader for the BSc/MSci Forensic Science course.
- Work effectively as a team member, chairing committees and working groups and where appropriate supervising and/or mentoring other members of staff
- Take a lead in your own area of expertise and lead/ co-ordinate the work of other staff to ensure module, course programme, enterprise or research project is delivered to the standards required
- Support colleagues with less experience and advise on personal development; train/advise on own area of expertise where appropriate; coach and support colleagues in developing research
- Undertake professional development in support of teaching and research, and if appropriate in support of enhancing the student experience and curriculum management.

PERSON SPECIFICATION

EDUCATION/QUALIFICATIONS Essential	Desirable
<p>E1. Bachelor's degree in a relevant scientific subject e.g. forensic science/analytical science/toxicology</p>	<p>D1. Postgraduate qualification (Masters or PhD) in the areas of forensic/analytical toxicology or research/industrial experience where the above is the major element.</p> <p>D2. Active membership of a relevant professional body</p>
KNOWLEDGE/ SKILLS Essential	Desirable
<p>E2. Significant laboratory-based experience in the field of analytical toxicology with extensive experience in the use of analytical instrumentation in this field including advanced chromatographic and spectroscopic methods and sample preparation procedures and ability to solve technical problems.</p> <p>E3. Deep familiarisation with the collection, handling and storage of specimens used in the field of analytical toxicology in line with current regulatory practices.</p> <p>E4. Deep familiarisation with the wide range of substances that may be encountered in the role of analytical toxicology, the role they play in criminal investigation, family law and related social and employment-based situations plus the legality associated with such substances.</p> <p>E5. Demonstratable deep knowledge of laboratory management systems and quality assurance in the analytical sector.</p> <p>E6. Skills in experimental design, analytical method development, the evaluation of analytical figures of merit and the statistical interpretation of analytical data with the ability to train students across the academic levels.</p> <p>E7. Knowledge of the role of the Expert Witness and of standard procedures used in the documentation of analytical toxicology data.</p> <p>E8. Knowledge of laboratory governance systems in relation to the regulation of forensic science and of ISO requirements relating specifically to toxicological and laboratory analysis.</p>	<p>D3. Professional workplace experience in the use of standard operating procedures in the field of toxicological analysis.</p> <p>D4. Experience of the role of the Expert Witness or Reporting Officer in the field of toxicological analysis.</p> <p>D5. Experience of research or commercialisation in the analytical toxicology or forensic service sector.</p> <p>D6. Experience in delivering or managing the requirements of the forensic regulator/regulatory authorities and ISO requirements relating to toxicological or wider laboratory analysis.</p>

E9. Knowledge of the sub-fields of toxicology e.g. clinical, environmental, forensic, with the ability to train students widely.	
JOB RELATED SKILLS AND CAPABILITIES Essential	Desirable
E10. Demonstrated effective communication skills in spoken and written forms and to be fully conversant with standard IT systems such as Microsoft Office.	D7. Teaching experience in Higher Education or demonstrable evidence of leading training programmes in industry with successful outcomes.
E11. Demonstrate effective self-management, excellent organisation and planning skills.	D8. Experience of mentorship and leadership.
E12. Understanding of the role of performance indicators with the ability to construct and manage action plans to improve performance.	D9. Evidence of successful creation of professional partnerships with others in the sector with the ability to secure collaborative and funding opportunities.
INTERPERSONAL SKILLS Essential	Desirable
E13. Ability to be an integral member of a team in an academic or professional-practice environment but to take initiative and lead on own projects.	
E14. Ability to relate to people from diverse backgrounds, ages and experience	
E15. Ability to lead on the establishment of positive and effective working relationships and collaborative opportunities in related disciplines internally at USW and in the external environment.	
OTHER REQUIREMENTS Essential	Desirable
E16. Willingness to undertake academic activities in the evening and at weekends and to travel abroad to undertake role related duties when required, and to engage in student recruitment and outreach activities.	

It is essential that when making an application, candidates specifically address the criteria set out in the Person Specification. This information will be used in deciding those to be shortlisted.

To help ensure the health of employees is not adversely affected, and to meet its legal and duty of care obligations, the University carries out a system of ongoing health surveillance checks where necessary. Health Surveillance is a legal requirement where work in noisy environments, using vibrating equipment or where hazardous substances are involved and is also necessary where identified by risk assessment. Your role has been identified as requiring health surveillance, therefore arrangements will be made at appropriate intervals for you to partake in the surveillance process. Please note, your cooperation in partaking in the process and allowing the University to be informed of the surveillance findings is mandatory.