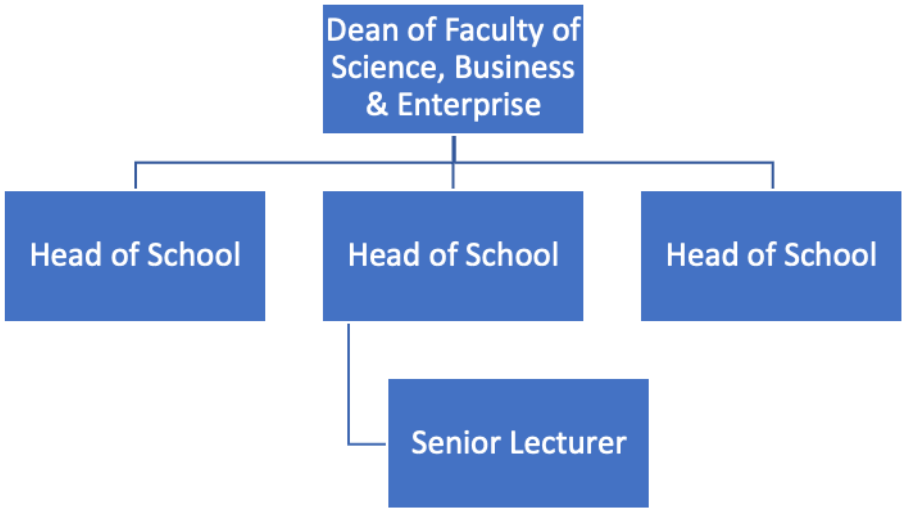
JOB DESCRIPTION

1. JOB TITLE: Senior Lecturer in Mathematics (TSR4)

2. HRMS REFERENCE NUMBER: HRMS/RA2050-26
3. ROLE CODE:

4. SCHOOL: School of Computer and Engineering Sciences

5. ORGANISATION CHART:



6. JOB PURPOSE:

- To provide a supportive learning environment for students to develop graduate level and subject specific skills.
- To coordinate the delivery of undergraduate and postgraduate programmes.
- To develop and implement teaching and learning initiatives.
- To contribute to postgraduate taught programmes and participate in research and research supervision.
- To take on the role of course leader for a taught degree programme.

7. BACKGROUND INFORMATION:
Mathematics is part of the School of Computer and Engineering in the Faculty of Science, Business and Enterprise. The School provides a supportive and intellectually stimulating environment, offering a range of undergraduate and postgraduate programmes, as well as supervision for MPhil and PhD students. We are committed to delivering high-quality teaching, as evidenced by consistently strong student satisfaction outcomes across our subject areas.

We are seeking a Senior Lecturer in Mathematics who will demonstrate excellence in higher-education teaching and actively contribute to our academic community. The successful candidate will have a strong foundation in core areas of mathematics, including analysis, algebra, probability, and statistics, and will be able to teach and support students across a range of levels. Experience in mathematical modelling, applied mathematics, or

data-informed approaches would be advantageous, alongside familiarity with relevant computational tools and software environments.

An interest in contemporary developments, such as uncertainty quantification, data-driven modelling, and the application of mathematics to real-world problems, will be valuable in ensuring that the curriculum remains current, rigorous, and aligned with both academic research and industry needs.

This role offers the opportunity to contribute meaningfully to curriculum development, student supervision, and the continued growth and impact of Mathematics within the School.

8. WORK PERFORMED AND/OR KEY RESULT AREAS:

8.1 Communicating Effectively

- To facilitate students' learning through lectures, tutorials and seminars at undergraduate, postgraduate and masters levels.
- To produce high-quality teaching and learning material to support and develop student learning at undergraduate and postgraduate levels.
- To write and publish research papers.
- To contribute to the writing of course validation documents as required.
- To contribute to the cross-Faculty development of curriculum and course materials.

8.2 Leadership and Working Collaboratively

- To exercise academic leadership, coordinating the efforts of colleagues to deliver module and course objectives.

8.3 Liaison and Networking

- To be an active member of relevant schoolal committees.
- To initiate and lead short-term internal networks, for example, new foundation degrees, coordinating teams of staff from the university/school and external examiners; to oversee the development of new courses, write documentation, gain accreditation, and secure approval of new courses.
- To chair schoolal working groups as required.

8.4 Delivering a High Quality Standard of Service

- To enhance the quality of taught and research programmes at undergraduate and/or postgraduate levels.
- To act upon peer observation feedback, student feedback, and external examiner feedback to maintain high quality in learning and teaching.

8.5 Effective Decision Making

- In the context of the role-holder's teaching duties, to make independent decisions on the content of individual learning activities and marking for student assessment purposes, and to provide advice to colleagues on such matters.
- To sit on student selection panels as required.
- To make collaborative decisions with course teams on the content of taught and research programmes at undergraduate and/or postgraduate levels.
- Provide advice on issues to other members of the school to influence operational decisions within the immediate work area.

8.6 Planning and Organising Self and Others

- To undertake elements of schoolal leadership in areas such as organisation of staff development activities, course leadership, assessment, students with specific learning needs, use of technology to support learning, or curriculum or student development roles.
- To act as module and course leader as required, co-ordinating the work of the module/ course team to ensure modules are delivered to the standards required, co-ordinating the work of colleagues to identify & respond to students' needs.
- To make significant and sustained contributions to the management of the subject area, including planning and resource allocation, policy development and improvement of procedures.
- To contribute to cross-Faculty course organisation, contributing to strategic decisions as required.
- To be responsible for the coordination of administrative duties in areas such as admissions, timetabling, examinations, assessment of progress, & student attendance.

8.7 Innovation and Improvement (Effective Problem Solving)

- To deal with problems e.g. a students' academic progress and personal issues (e.g. responding to needs of students with learning difficulties through referral to the appropriate support schools within the University).
- To design new modules as required.
- To develop suites of new modules and contribute to overall course design.
- Work with others to develop ideas for generating income and promoting the subject.

8.8 Analysis and Research

- To research teaching materials and to identify and utilise current best practice in the relevant subject area.
- To conduct subject-specific, professional & pedagogy research & scholarship at the national level, leading to publications or other outputs as appropriate; identify new trends in best practice in the relevant subject area.
- To write applications for research funding

8.9 Sensory and Physical Demands

- Standard office environment and equipment reflecting the needs of classroom, laboratory, studio, field and placement activities as appropriate.

8.10 Work Environment

- To be responsible for the health and safety of students in their immediate working environment, conducting risk assessments as required.

8.11 Pastoral Care and Welfare

- To deal with sensitive issues concerning students and provide support.
- To act as a Personal Academic Tutor (PAT).
- To take responsibility for dealing with referred issues for students within own programmes.

8.12 Team Development

- To undertake peer mentoring and review of colleagues.
- Support the learning of colleagues through coaching and mentoring.

8.13 Teaching and Learning Support

- To design inductions to modules and programmes for students, adapting delivery to suit learners' needs.
- To design and deliver one off lectures or workshops as required, providing feedback on performance.
- Supervise students' projects, fieldwork and placements at all levels.
- To develop and design course content and materials on a long term basis, ensuring compliance with the quality standards and regulations of the University and school.
- To conduct seminars and tutorials, introducing new methods of delivery where required, and to supervise students at all levels across the breadth and depth of the subject area.
- To assess students overall performance, through setting/ marking coursework, practical sessions, supervisions, fieldwork and examinations, providing appropriate feedback to students.
- Responsible for the overall quality auditing of course provision to identify areas where current provision is in need of revision or improvement.
- To contribute to overall curriculum development and course design in specific area of curriculum.

8.14 Knowledge and Experience

Qualifications

- Will be required to have or achieve membership of a relevant professional body (HEA).
- Will be required to hold a doctoral level qualification.

Experience

- Must have suitable expertise to deliver lectures in the relevant subject area
- Previous teaching experience in higher education.
- Proven and sustained track record of contribution to the development of policy and practice in teaching and learning support.

Skills/Attributes

- An ability to keep abreast of, and lead developments in, teaching and scholarship specific to the subject area, demonstrated through e.g. attendance at conferences, external contacts and, where appropriate, publication of research.
- An ability to support students both academically and pastorally.
- Organisational and administrative skills.
- IT skills.
- An ability to lead and/or work as part of a team.

8.15 General

- To undertake any other duties commensurate with your grade, and/or hours of work, as may reasonably be required of you.

- To take responsibility for upholding and complying with the University's Equality and Diversity policies and for behaving in ways that are consistent with fair and equal treatment for all.
- To comply with all University Health and Safety policies.

PERSON SPECIFICATION		
Job Title: Senior Lecturer	**School: Computer Science**	
Criteria	**Essential / Desirable**	**Method of identification**
Qualifications:		
Good first degree in a relevant subject	Essential	Application Form
Membership of a relevant professional body (e.g. Advance HE) or PG Cert in Learning and Teaching in Higher Education, or a willingness to achieve this	Essential	Application Form
PhD in Mathematics or related STEM discipline	Essential	Application Form
Proven Experience:		
Must have suitable expertise to deliver lectures in mathematics-related modules	Essential	Tutorial/ Interview
Previous teaching experience in higher education.	Essential	Application Form/ Interview
Proven and sustained track record of contribution to the development of policy and practice in teaching and learning support.	Essential	Application Form/ Interview
Demonstration of an advanced level of subject knowledge and of being an externally regarded teacher or scholar.	Essential	Tutorial / Interview
An ability to keep abreast of and lead developments in teaching and scholarship in mathematics, demonstrated through, e.g. attendance at conferences, external contacts and, where appropriate, research publication.	Essential	Interview
Previous supervision of PhD Students	Desirable	Application Form

Delivering academic and service excellence:		
An ability to support students both academically and pastorally.	Essential	Interview
Experience of Course Leadership and Course Design	Desirable	Application Form/ Interview
Managing self and inspiring others:		
An ability to lead and/or work as part of a team.	Essential	Interview
Organisational and administrative skills.	Essential	Interview
IT skills.	Essential	Interview
An enthusiastic and capable teacher	Essential	Tutorial
Working together:		
Previous co-publications within and/or across disciplines	Desirable	Application Form
Previous experience of working as part of a curriculum development team.	Desirable	Application Form/ Interview
Organisational and stakeholder awareness:		
Experience of University Quality Processes, Committees and Validations.	Desirable	Application Form/ Interview
Engagement with Industry personnel in promotion and development of courses	Desirable	Application Form/ Interview

Essential Requirements are those, without which, a candidate would not be able to do the job. Applicants who have not clearly demonstrated in their application that they possess the essential requirements will normally be rejected at the shortlisting stage.

Desirable Requirements are those that would be useful for the post holder to possess and will be considered when more than one applicant meets the essential requirements.

Method of identification is where the selection panel will match the candidate's skills and abilities to the required criteria outlined (i.e. application form, interview, test)

UNIVERSITY OF CHESTER

School of Computer and Engineering Sciences

Senior Lecturer in Mathematics

SALARY SCALE
TSR 4, points 35 – 39, £44,746 to £50,253 per annum.

HOLIDAY ENTITLEMENT
In addition to statutory Bank/Public Holidays and Christmas Closure days, staff are entitled to 35 days annual leave per annum. In the annual leave year in which employment commences, annual leave entitlement will accrue on a pro-rata basis for each completed calendar month of service.

MEDICAL EXAMINATION
The successful candidate will be required to complete an Occupational Health Questionnaire and may also be required to undergo a medical examination.

ESSENTIAL CERTIFICATES
Short-listed candidates will be asked to bring to the interview, proof of qualification as outlined on the Job Description and Person Specification provided. Upon appointment, Human Resources will require copies of essential certificates.

PENSION SCHEME
All academic staff will be enrolled in the Teachers' Pension Scheme from their first day of employment, in accordance with the scheme rules. If staff do not wish to remain members, they will be entitled to opt out after enrolment.

EQUAL OPPORTUNITIES
The University has a policy of equal opportunity aimed at treating all applicants for employment fairly.

SMOKING POLICY
The University operates a No-Smoking policy.

PROBATIONARY PERIOD
A twelve-month probationary period applies to all academic posts.