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You will develop core knowledge of basic DSP theory and its implementation in hardware. In addition you will be able to specialise in areas including multimedia and intelligent signal processing. The taught modules are fully supported, with computing and laboratory work. The MSc is intended for graduates in a related discipline, who wish to enhance and specialise their skills in the area, and also for industrialists with some experience of working with signal processing in the IT sector, who wish to obtain a formal qualification.

Continuing onto work or research

You will be provided with skills and knowledge that will prepare you for a career either in industry or in further research.

Location

Our location, in the heart of London’s East End, offers an incredibly rich and diverse cultural environment.

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POSTGRADUATE COURSES

Computer Science
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- MSc Computer Science by Research
- MSc Computer Vision
- MSc Computing and Information Systems
- MSc FT Software Engineering

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- MSc Telecommunications Systems in the Business Environment
- MSc Telecommunication Systems
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Media and Arts Technology
- MSc Media and Arts Technology by Research

Contact Information:
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Social Media:
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- www.youtube.com/qmulofficial
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MSc in Computer Science by Research (Full-time - 12 months)

You will join one of our research groups, taking four selected taught modules and completing an extended research project. You will have the opportunity to develop further research and technical skills and to be able to demonstrate a level of independence that is greater than developed on a purely taught programme.

Our MSc in Computer Science by Research involves an extended (one-year) individual research project carried out as part of one of our established research groups, combined with selected taught modules.

Why study with us?

This programme offers you the chance to undertake an advanced masters programme through an extended research project. The programme is suitable for outstanding students who have an interest in advanced research-based study in one of our research specialisms: Computer Vision; Cognitive Science; Risk & Information Management; Computer Science Theory.

The MSc by Research programme will give you solid theoretical and practical research competences in your chosen field of study and will enhance your employability. Successful completion of the programme may also provide a route to further study at doctoral level or for a research and development position in industry.

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Credit Suisse
Sky
Accenture
Bank of America
Merrill Lynch
FDM
ITRS Group
Qube Global
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MSc by Research in Electronic Engineering (One year full-time)

An MSc by Research will provide you with the necessary skills to undertake research, either in an academic or industrial environment. The expectation is that every graduate from the degree publishes at least one conference paper as part of the research. You will have the opportunity to develop further research and technical skills and to be able to demonstrate a level of independence that is greater than developed on a purely taught programme.

Why study with us?

The programme is suitable for outstanding students who have an interest in advanced research-based study in one of our research specialisms: Antenna and Electromagnetics; Centre for Digital Music (C4DM); Multimedia and Vision (MMV); Networks.

Programme outline

You will join one of our research groups, taking four selected taught modules and completing an extended research project. You will have the opportunity to develop further research and technical skills and to be able to demonstrate a level of independence that is greater than developed on a purely taught programme.

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Recent graduate destinations

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- Technical Analyst: Credit Suisse
- Interactive Systems Developer: Sky
- Software Developer: Accenture
- Analyst Technical Associate: Bank of America Merrill Lynch
- IT Contractor: FDM
- Computer Analyst: ITRS Group
- IT Developer: Qube Global Software
- Team Manager: Bromley-by-Bow Centre
- Computer Programmer: Rightmove
- Computer Consultant: Mac Experts Ltd
- Graduate Engineer: Ministry of Defence

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Why study with us?

The impact of Information Systems on everyday life continually expands at a monumental rate. Computing is increasingly embedded in everything we use from; transport, financial and telecommunications systems to everyday personal items such as toothbrushes and running shoes. The pervasive nature of computing coupled with the ever increasing demand for improved products and services drives the discovery of innovative solutions through the use of information systems. This has led to a critical dependence emerging between computing and practically all industries. Graduates and engineers who are able to fully exploit the potential that computing and information systems offer within a range industries including, Retail, Manufacturing, Health, and Communications; are highly sought after. If you are looking to further your employment options in your current industry, but have little or no technical experience, then this programme is for you.

Hands-on experience
Apart from lectures, you will work on a practical final project. We offer a wide range of cutting edge research projects as well as industry-related projects

Continuing onto work or research
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Queen Mary
University of London
MSc in Digital Signal Processing

(One year full-time, two years part-time)

Core modules: Advanced Transform Methods - Communication Theory - Fundamentals of DSP


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Recent graduate destinations

• Sound Engineering - Digital Sound Engineering Company
• Signal Design Engineer - Metronet Rail Ltd
• Engineer - Sony Ericsson
• Engineer - Streaming Networks
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MSc in Media and Arts Technology by Research (One year full-time)

Core modules: - Digital Arts Documentary - Interactive Digital Multimedia Techniques - MSc Advanced Placement Project - Research Methods I - Sound Recording and Production Techniques


Why study with us?

This new programme aims to produce postgraduates with excellent technical and creative skills, who have a unique vision of how digital technology transforms creative, technical and social possibilities. You will receive training in the full research cycle including identifying a problem, choosing suitable methods to address it (eg qualitative, experimental, practice-based) and communication of results.

You will develop a critical appreciation of the technical and creative state-of-the-art in contemporary applications of digital media. In addition you will learn key technical skills that will enable you to produce new applications of your own. You will then apply this learning to a six-month advanced placement project with one of our partner organisations leading to a thesis (see www.mat.qmul.ac.uk for a full list of our partners).

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Analyst Technical Associate Bank of America Merrill Lynch
IT Contractor FDM
Computer Analyst ITRS Group
IT Developer Qube Global Software
Team Manager Bromley-by-Bow Centre
Computer Programmer Rightmove
Computer Consultant Mac Experts Ltd
Graduate Engineer Ministry of Defence

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Queen Mary
University of London
MSc in Telecommunication Systems
(One year full-time, two years part-time)

Core modules: - 21st Century Networks - Communication Theory - Mobile and WLAN Technologies - Mobile Services - Network Modeling and Performance - Project - Software and Network Services Design


Why study with us?

This new MSc is designed to educate a generation of network engineers in the fundamental science, mathematics and key technologies that have made global networking possible, and will continue to develop it into the future. This programme is for students who want to pursue a career shaping and defining the new generation of converged networks. It:

- Provides an in-depth understanding of the key issues in next generation, all-packet networking
- Covers quality of service-enabled transport; support for generalized mobility; ubiquitous provision of services to users; core network consolidation
- Provides advanced communications theory to underpin the science
- Addresses probabilistic methods for network performance evaluation, and network security
- Provides an in-depth treatment of mobile networks from WCDMA 3G to LTE and LTE-Advanced
- Addresses the new areas of sensor networks and Internet Of Things
- Teaches Java programming

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Recent graduate roles and destinations include:

- Analyst, Global Insight
- Vice President, Habib Bank Ltd
- Manager, Lucent Technologies
- Senior Projects Officer, Islamic Development Bank
- Engineer, Nokia Siemens Network Pvt. Ltd
- Engineer, Nortel Networks
- Network Engineer, Wateen Telecom
- Network Administrator, Action Images

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Queen Mary
University of London
MSc in Software Engineering
(One year full-time, two years part-time)

Core modules: Project


Why study with us?

Software is at the heart of our society: visibly in offices, shops and providing communication and entertainment and invisibly, for example monitoring the health of patients in critical care and under the hood of our cars.

Software engineering is about building robust and reliable software that we can depend upon. Human computer interaction, the mathematical foundations of software and risk analysis are among the specialism within the School of Electronic Engineering and Computer Science (EECS) that inform our MSc in Software Engineering.

- Learn advanced techniques in program design
- Study key issues of interactive system design
- Learn the mathematical foundations of software and the practical application of these techniques
- Discover ways of mitigating risk in large scale software engineering projects
- Learn techniques for developing software used in real-time and critical systems

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- Bank of America
- Merrill Lynch
- FDM
- ITRS Group
- Qube Global Software
- Bromley-by-Bow Centre
- Rightmove
- Mac Experts Ltd
- Ministry of Defence

The programme will enable you to become competitive in the most technically oriented branches of software engineering and in addition you will become competent in:

- problem solving
- risk assessment
- logical thinking
- presentation skills
- risk and decision analysis

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MSc Telecommunications in the Business Environment

(Full-time - 12 months)


Options include: Digital Media and Social Networks - Mobile Services - Network Modeling and Performance - Next Generation Mobile - Sensors and the Internet of Things

Why study with us?

This programme prepares you for a career in telecommunications and its applications, for example the integration of voice and data applications, within a business context. The programme combines in-depth coverage of the main technical aspects of telecommunications with advanced business modules.

The programme will provide a greater appreciation of the business context in which networked applications and the underlying information and communications technologies are used by organisations.

At the end of the programme you will be equipped with the skills needed for a wide range of jobs in the expanding telecommunications industry, with emphasis on those that are relevant to business/financial needs, particularly in the small business and start-up sector.

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