northumbria UNIVERSITY NEWCASTLE | London

Web and Mobile Development Technologies (London Campus) MSc

Postgraduate | 2 years part-time | Computer Science and Digital Technologies
London | September

Continue working while you study with lectures delivered on 15 weekends throughout the 2 year course

Build a firm grounding in strategic web development skills, mobile development and the Internet of Things

Learn how to manage and utilise the opportunities emerging technologies create

Undergraduate degree not essential for entry, your full academic and working background are considered.

Web and Mobile Development Technologies (London Campus) MSc

About this course

Technology is one of the greatest agents of change in the modern world and represents a significant opportunity and risk for businesses of all sizes.

Developers play a central role in how we interact with the online world and employment in the IT industry is expected to grow at nearly 5 times the UK average over the next decade (CIO). The demands of our global, data-intensive, knowledge based economy is creating a skills gap, making now the perfect time to gain the skills necessary to meet demand.

Our part-time MSc Web and Mobile Development Technologies is taught by industry experts around leading-edge content, and is designed to give you a firm grounding in strategic web development skills, with a specific focus on mobile development and user experience. New for 2017, this programme now includes a module on the Internet of Things, providing students with the required skills needed to join any industry investing in this multi-billion dollar sector.

Blending hands on training with academic rigour, our programme will enable you to develop the lifelong skills needed to rise to the challenge and opportunity of emerging technologies and engage in the 'bleeding edge' field - an area which is notoriously high risk and has an increased potential of unreliability.

Key facts

- Part-time Masters degree based in Central London
- Continue working while you study with lectures delivered on 15 weekends throughout the 2 year course
- Build a firm grounding in strategic web development skills, mobile development and user experience
- Understand the current shape of emerging technologies in web, mobile, cloud and the Internet of Things
- Learn how to manage and utilise the opportunities emerging technologies create
- Undergraduate degree not essential for entry

Entry Requirements 2017/18

Applicants should have:

Standard entry requirements

- Minimum 2:2 or above from a recognised university in a relevant field (IT/Computer Science or related field) or
- An equivalent professional qualification with professional practice experience in a related field.

Non-standard entry requirements

Mature applicants with a lower qualification will be considered for entry if s/he has at least 3 years demonstrable IT, software development professional experience and is able to fulfil the objectives of the programme.

If you have substantial relevant experience alone, your application will be considered on its individual merit. If you're unsure if you meet the entry criteria, please contact us and our team will be able to advise you.

Finance

Tuition fees: £7,650

This is the total fee for your 2 year programme including tuition, all course materials and assessments.

Payment plans

We offer an interest free monthly payment plan available to all self-funded (non-postgraduate loan) students after payment of your deposit.

Step 1: Pay a £2,450 deposit on or before enrolment (a £450 booking fee, and a £2,000 top up before your induction)

Step 2: Pay 24 x monthly directs debits of £216.67 throughout the duration of your course.

Government Loan for Masters Study

For the Academic Year 2017/18, the Government will be providing a Postgraduate Loan up to the value of £10,280 for UK and EU students.

To find out more about this financing option and to check your eligibility please contact us or visit:

london.northumbria.ac.uk/courses/dates-and-fees

Provisional modular overview

1. Web Engineering **(Core, 20 credits)**

This module will enable you to understand, learn and develop with emerging web engineering techniques and standards. You will learn how to demonstrate an understanding of specific technologies, methods, skills and concepts in developing and deploying systems relating to web design and authoring. Focusing on how to identify user requirements in multi-platform, multi-device web development, you will also explore how to formulate solutions in design. You will then critically evaluate their practice and implement reliable, optimised, and future-proof web applications using industrial strength platforms.

2. UX/UI Theory, Experience and Development **(Core, 20 credits)**

The application of User Experience (UX) is critical to succeed in front-end engineering. In this module, you will learn how to demonstrate knowledge of UX/UI theories, design principles and technologies and develop a deep appreciation of the benefits and problems associated with UX/UI and development of interactive systems. Coupled with this, you will also learn about the legislation and standards relevant to UX/UI, and be able to apply UX/UI standards and guidelines to the development of responsive/interactive systems.

3. Mobile Application Development **(Core, 20 credits)**

This module will enable you to model, design and implement native mobile applications and understand the fundamentals and theories of mobile communication technologies. You will learn how to make the correct choices for key tools, platforms and techniques enabling development of mobile applications for specific business requirements. Exploiting hardware features available on a variety of devices to support mobile application development and deployment and carrying out quality assurance procedures.

4. Internet of Things **(Core, 20 credits)**

This module will give you the opportunity to understand the technologies behind the Internet of Things, e.g. embedded systems, distributed computing, operating systems, network protocols, programming frameworks and cloud computing. The module covers technologies and modern business trends of the IoT utilizing Amazon cloud, typical IoT applications, architectures, network protocols, application programming and data analytics. Students will have the opportunity to design and implement applications for the Internet of Things using Raspberry Pi on Amazon Web Services IoT platform.

5. Cloud Computing **(Core, 20 credits)**

During the module you will learn how to design and develop services that access local and remote data from various data sources. You will be able to develop and deploy services to cloud environments e.g. Windows Azure or Amazon Web Services and identify technical terminology and concepts that relate to the cloud and web service platforms. Additionally learning how to create scalable, load balanced services and implement growth strategies, deploying infrastructure and applications and manipulating cloud based data structures.

6. Web Application Security **(Core, 20 credits)**

The aim of this unit is to provide you with the understanding and skills needed to identify security risks in web applications and mitigate those risks by writing secure code. The module will enable you to develop analytical skills for the most critical/up-to-date web application security risks using professional security techniques such as OWASP. You will be able to demonstrate and employ practical skills to secure discrete unity of code and explain native web browsers security defences, applying the principles of information security in a practical setting.

7. Dissertation **(Core, 60 credits)**

The module will build upon the concepts and theories presented throughout the programme and will require you to develop, consolidate and apply your independent research, academic study and research project management skills to the investigation of a topic of your own choice that is relevant to your programme of study, your workplace or your future career aspirations.

Ready to apply?

Application for all our courses is direct to the University via our online application form. Simply visit our website and click on the 'Apply now' button to start your application. Our dedicated team of Learning Advisors are on hand to guide you through the application process and can provide you with additional information about financing options available for your programme.

Visit our website for more information: northumbria.ac.uk/London-applications

Dates and deadlines

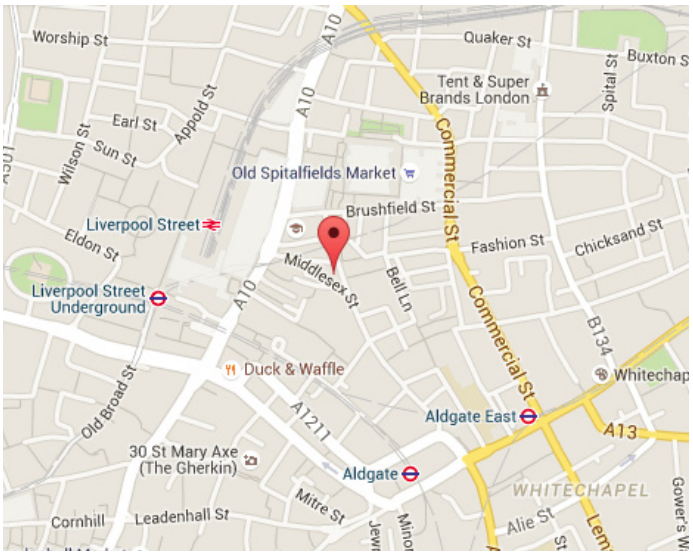
	September 2017	January 2018*
Application deadline	22 September 2017	19 January 2018
Course start date	30 September 2017	27 January 2018

*Provisional dates

For the latest dates please visit our website: london.northumbria.ac.uk/courses/dates-and-fees

Contact Us

Our Learning Advisors are available to answer any questions you may have about starting your part-time Masters with us. You can also arrange to meet us at our London Campus to further discuss your application and experience the environment you will be learning in.



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