WEB SCIENCE AND BIG DATA ANALYTICS MRes / 2017/18 ENTRY

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Web Science and Big Data Analytics MRes /

The MRes covers web-related technologies and big data analytics. It is intended for students with a general science and engineering background and makes them well equipped to proceed to become the ideal choice for the best employers in internet-related industries and the areas requiring big data analytical skills.

**Degree summary**

Students will gain a detailed knowledge and understanding of the fundamental principles and technological components of the World Wide Web, learning not only the latest web search and information retrieval technologies and their underlying computational and statistical methods, but also studying essential large-scale data analytics to extract insights and patterns from vast amounts of unstructured data.

- UCL Computer Science is recognised as a world leader in teaching and research, and was one of the top-rated departments in the country according to the UK government’s recent Research Excellence Framework.
- Our Master’s programmes have some of the highest employment rates and starting salaries, with graduates entering a wide variety of industries, from entertainment to finance.
- We take an experimental approach to our subject, enjoy the challenge and opportunity of entrepreneurial partnerships and place a high value on our extensive range of industrial collaborations.

The programme is delivered through a combination of lectures, tutorials and seminars. Lectures are often supported by laboratory work with help from demonstrators. For the research project, each student is liaised with their academic or industrial supervisor to choose a study area of mutual interest. Student performance is assessed by unseen written examinations, coursework and the research dissertation.

**Degree structure**

Mode: Full-time: 1 year
Location: London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of two core modules (30 credits), three to four optional modules (45 to 60 credits), up to one elective module (15 credits), and the research dissertation (90 credits).

### CORE MODULES
- Investigating Research (15 credits)
- Researcher Professional Development (15 credits)

### OPTIONAL MODULES
- Students must choose a minimum of 45 and a maximum of 60 credits from Optional modules. Students may also choose up to 15 credits from Electives.
- Affective Computing and Human-Robot Interaction (15 credits)
- Complex Networks and Web (15 credits)
- Computer Graphics (15 credits)
- Graphical Models (15 credits)
- Information Retrieval and Data Mining (15 credits)
- Machine Vision (15 credits)
- Probabilistic and Unsupervised Learning (15 credits)
- Statistical Natural Language Processing (15 credits)
- Web Economics (15 credits)

Please note: the availability and delivery of modules may vary, based on your selected options.

A list of acceptable elective modules is available on the Departmental page.

### DISSERTATION/REPORT
- All students undertake an independent research project which culminates in a substantial dissertation.
Your career

Graduates from UCL are keenly sought by the world’s leading organisations, and many progress in their careers to secure senior and influential positions. Graduates of our Web Science and Big Data Analytics programmes are expected to develop careers in scientific research, the internet-based industry and other professional areas that require big data analytics skills.

Employability

The skill set obtained from our MRes makes our students the ideal choice for the best employers in internet-related industries and sectors requiring big data analytics. The MRes has a unique industry connection as almost all our lecturers have industry experience. Through long-term collaborations with big players in the field such as Google, Microsoft and BT, their research is driven by the fundamental technical challenges faced by the industry. Throughout the degree, our students have the chance to interact with our industry collaborators and previous students, and have placement opportunities to address specific technical problems faced by the industry.
Entry requirements

A minimum of an upper second-class UK Bachelor's degree in a highly quantitative subject, or an overseas qualification of an equivalent standard. Students should also have some experience with a programming language such as Java or python.

English language proficiency level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Good.

Information about the evidence required, acceptable qualifications and test providers is provided at:
www.ucl.ac.uk/graduate/english-requirements

Your application

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:
- why you want to study Web Science and Big Data Analytics at graduate level
- why you want to study Web Science and Big Data Analytics at UCL
- what particularly attracts you to this programme
- how your academic and professional background meets the demands of this programme
- what programming experience you have
- where you would like to go professionally with your degree

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

FEES AND FUNDING 2017/18 ENTRY

- UK: £11,800 (FT)
- EU: £11,800 (FT)
- Overseas: £25,130 (FT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Applicants considering a career in the media industry can get a head start by applying for the Channel 4 Graduate Data Scientist role, a two-year fixed term contract, completing the MRes in year one, then working full-time for Channel 4 in year two.

The Channel 4 closing date is 24:00, 15 March 2017. Applications should be submitted to both Channel 4 and UCL.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE

All applicants: 17 June 2017

Details on how to apply are available on the website at:
www.ucl.ac.uk/graduate/apply

CONTACT

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EU referendum

For up-to-date information relating to specific key questions following the UK's decision to leave the EU, please refer to
www.ucl.ac.uk/eu-referendum