



Queen Mary
University of London

Scholarships
and funding available
for postgraduate study
qmul.ac.uk/scholarships

MSc Theoretical Physics



I found all of the staff at Queen Mary to be helpful and welcoming, and this accelerated my learning significantly - not only did I get the chance to experience what academic research is like and network with academics, but my supervisor was also able to assess my research skills.”

Nadia Bahjat-Abbas

MSc Theoretical Physics (Euromasters), 2017

qmul.ac.uk/spa

MSc Theoretical Physics

One year full-time

Work at the forefront of research in theoretical physics and answer some of the deepest questions about the nature of the world around us. This MSc gives you a complete specialist overview of key topics and is taught by some of the UK's leading string theorists from Queen Mary's Centre for Research in String Theory.

The expertise you will gain on this programme will make you a future physics pioneer.

This programme will give you a comprehensive understanding of the field, covering topics such as supersymmetric field theories, string theory and quantum field theory, while also keeping you up-to-date with the very latest developments in research. You'll also gain expertise in advanced mathematical techniques and their applications in theoretical physics.

The programme consists of eight taught modules and a research project. You'll develop a sophisticated understanding of research methodology, and how to manage your own research, making use of journal articles and other primary sources.

You'll join a thriving, friendly research community, with a busy schedule of research

seminars, colloquia, meetings and workshops as well as regular social events, so you can make the most of the specialist research skills you'll develop on this course.

Recent research project titles include:

- From Scattering Amplitudes to Gravitational Waves
- Anyons and Topological Quantum Computation
- Bounding Quantum Chaos

Modules include:

- Relativistic Waves and Quantum Fields
- Relativity and Gravitation
- Differential Geometry in Theoretical Physics
- Functional Methods in Quantum Field Theory
- Supersymmetric Methods in Theoretical Physics
- Advanced Cosmology
- Advanced Quantum Field Theory
- Introduction to Strings and Branes

Check our website for the full list of over 40 modules and module descriptions.

Entry requirements

A 2:1 or above at undergraduate level in Physics or a closely related discipline. IELTS 6.5 is required.

100%
of MSc graduate
survey respondents
are in employment
or further study
(DLHE 2016/17)