Robotics and Automation (in Laboratory Science) Online Short Course

www.biomedonline.co.uk
Overview

This 12-week online course, starting in April and October, is designed for:

– Biomedical scientists wishing to get a broader knowledge of automation and robotic systems in pathology;
– Those wishing to gain experience in the evaluation of robotic systems;
– Those wishing to gain management experience in the evaluation, purchase and evaluation of automated and robotic systems;
– Medical students and clinicians moving into pathology departments

Course objectives

On completing this course successfully you will be able to:

– Demonstrate an appreciation of the range of robotic systems currently available for all pathologies.
– Demonstrate an appreciation of the range of companies that provide automated and robotic systems.
– Demonstrate an appreciation of the planning process for purchasing automated and robotic systems.
– Recognise how to evaluate the efficiency of automated and robotic systems.
– Understand the limitations of automated and robotic systems.
– Translate current developments into needs for the future.
Course content

Two workshops
- Workshop 1: an introduction to e-learning, your tutors and your course
- Workshop 2: course consolidation

Guided online study
- Introduction
- Automation Basics
- The Planning Process
- Total Laboratory Automation
- Communication
- A look into the Crystal Ball
- Finals

Why study this course?
- It offers you a high level of student support, with a typical tutor: student ratio of 1:10
- Courses are approved for CPD by the Institute of Biomedical Science, the leading body for those working in the field
- Our courses offer you a flexible, practical way to learn, for CPD or towards a PG Cert, PG Dip or full MSc..

Student Comments

“This module gave me the knowledge and skills required to help evaluate best automation solutions for my (or any) place of work. I highly recommend this course to any Biomedical Scientist.”

Katie McGregor
Specialist Biomedical Scientist, NHS Tayside

“The course showed how equipment is continually developed to achieve lean working in an ever changing and competitive environment and was delivered by an expert tutor who encouraged us to think outside the box.”

Bernadette Thomas
Biomedical Scientist, St Helens and Knowsley Teaching Hospitals NHS Trust
“The tutor was very approachable and knowledgeable. I would highly recommend this module to anyone who has some experience of working with automated laboratory equipment or for those who just want to expand their knowledge on the subject.”

**Tim Wells**  
Biomedical Scientist, Blackpool Teaching Hospitals NHS Foundation Trust

“This is one of the most comprehensive courses on Robotics and Automation in pathology. Learning as a group with the students and tutor was fun and inspiring”.

**Simeon Agbonkhina**  
Former Serologist, Health Services Laboratories

### Key facts

- **Attendance**: 12 weeks (online)

### Entry requirements

This course is aimed at employees across the health sector. You may already have a qualification in a science such as biology, biochemistry, chemistry or pharmacy at a range of levels, from HNC or BSc to PhD.

### Qualifications

Each of our online short courses is worth 30 credits at FHEQ Level 7 (Master’s level). You can complete four online short courses plus a workplace-based project in up to seven years for an MSc accredited by the Institute of Biomedical Science.

We also offer Postgraduate Certificates for successful completion of two online modules, or a Postgraduate Diploma for four modules. Please see our website at [www.biomedonline.co.uk](http://www.biomedonline.co.uk) for details of the course options for our PG Certs and Dips in Biomedical Science (Online), Healthcare Management and Healthcare Quality Management.

### How to apply

To make a booking, or to find out more, please contact us:

E-mail: biomedoffice@gre.ac.uk  
Website: [www.biomedonline.co.uk](http://www.biomedonline.co.uk)
Fees information

The schedule of fees is available at www.biomedonline.co.uk. A discount is available for members of the Institute of Biomedical Science and students who work at an organisation that is part of the Biomed Online Consortium (please see our website for the Consortium members).

More online courses

- Advanced Human Genetics
- Analysis of Nucleic Acids
- Antibiotics
- Applied Haemostasis and Thrombosis
- Blood Transfusion
- Chromatography-Mass Spectrometry Analysis in Healthcare Settings
- Clinical Data Interpretation
- Diabetes and the Clinical Laboratory
- Diagnosis of Breast Cancer
- Diagnostic Haemostasis and Thrombosis
- Governance and Risk Management
- Haematological Malignancies
- Haemoglobinopathies
- Haemolytic Anaemias
- Immunocytochemistry in Diagnostic Cellular Pathology
- Implementing Advanced Quality Management
- Lung Disease
- Management of Healthcare Associated Infection
- Managing Learning and Development in Healthcare
- Parasitology
- Point of Care Testing
- Quality Systems Management
- Renal Disease

More courses coming soon...