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Nottingham

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MRes Brewing Science

Develop the skills needed for a career in brewing research and development with this one year applied brewing science course

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International
quality standards
of research



Cutting-edge
research project



Includes intensive
residential course



Advanced training
for employment





Perfect your practical research skills and improve brewing processes through a novel research project

Overview

This programme is designed for individuals within the brewing industry or those seeking to gain entry into this thriving and progressive sector. While covering the scientific principles of brewing, the course allows you to focus on a novel research-based project. Projects are targeted towards subject areas of industrial significance, potentially leading to process improvements and optimisation, as well as helping you develop a detailed knowledge of particular areas of the brewing process.

This flexible course will help you develop the laboratory skills needed for a career in research and development, particularly within the food and beverage industry.

Content

The main focus of the course is an extended research project. Research topics are typically determined through discussion with academic staff from the University or an industrial sponsor, and can be linked to any aspect of the brewing process or related industries. You will be allocated a supervisor with the relevant expertise to support your project. Full provision will be made for laboratory training and acquisition of relevant techniques.

Structure

The course comprises a major brewing research project worth 150-160 credits, 20-30 credits of taught subject modules, and up to 20 credits of generic training courses and optional modules. The research project can be conducted off-site, for example within facilities based at an industrial partner (if you have secured one) or within the University's International Centre for Brewing Science.

The taught component is delivered through interactive e-learning and an intensive advanced residential course (typically one week). Modules are usually completed within the early part of the course and should ideally be related to your research project topic in order to provide relevant background information. As a guide, the taught component is typically approximately 15% of the course with the remaining time allocated to the research project.

Modules

Taught modules:

The modules available cover the technology behind the modern brewing process and the underlying scientific principles required to control the conversion of raw materials into beer, as well as quality control and management issues. The majority of this component is delivered via e-learning which can be undertaken at any time. You can select taught modules typically from:

- Beer Flavour Development and Sensory Analysis (20 credits)
- Raw Materials for Brewing (20 credits)
- Fundamentals of Brewing (20 credits)
- Beer Analysis and Quality Management (10 credits)
- Beer Maturation and Filtration (10 credits)
- Brewery Waste Management and Environmental Issues (10 credits)
- Brewery Yeast Management (10 credits)
- Brewing Microbiology (10 credits)
- Brewhouse Processes (10 credits)
- Fermentation and Yeast Handling (10 credits)
- Packaging of Beer (10 credits)

Entry requirements

Applicants whose first language is not English must also achieve:

- IELTS 6.0 (with no less than 5.5 in any element)
- TOEFL iBT 79 (with no less than 17 in writing and listening, 18 in reading and 20 in speaking)

Test results should be no more than two years old.

Find out more

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University of Nottingham has made every effort to ensure that the information in this leaflet was accurate when published. Please note, however, that the nature of the content means that it is subject to change from time to time, and you should therefore consider the information to be guiding rather than definitive.

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