

CASE STUDY



University of Southampton - Brand New Chemical Engineering Lab

INTRODUCTION

The University of Southampton is a leading public research university based in Southampton, England. With seven campuses across the UK and internationally—including five in Southampton, one in nearby Winchester, and a branch campus in Malaysia specialising in Engineering—the university serves a diverse global student community. As the largest university in the South East of England by student population, the University of Southampton is consistently ranked among the world's top 100 universities, reflecting its reputation for academic excellence, research impact, and innovation.



THE CHALLENGE

In 2019 The University of Southampton allocated £5.3m to provide state-of-the art teaching facilities to support the University's new Chemical Engineering programmes.

GUNT Technology Limited was successful in providing 8 different pieces of equipment to outfit the new teaching lab facilities that were being constructed on the site of the former Chemistry stores.

Together with the University and Rekan, the construction consultants, we carefully made plans on how to move the project forward to build the new lab facilities.



EQUIPMENT FOR THE NEW TEACHING LAB

CE 640 Biotechnological production of ethanol

CE 630 Solid-liquid extraction

CE 620 Liquid-liquid extraction

CE 530 Reverse osmosis

CE 130 Convection drying

CE 287 Plate and frame filter press

THE SOLUTION

GUNT Technology Limited worked closely with the University to select and install 8 pieces of engineering kit and work out where it should all be placed. Meanwhile Rekan were building walls and installing windows and flooring to create the lab; taking into consideration power sockets, water outlets and other infrastructure needed to operate the equipment.

Today the newly built teaching facilities are a top spec, highly functional Chemical Engineering laboratory, a virtual control room and computing, design and study spaces.

The lab allows students to put theoretical concepts learnt in lectures into practical use, whilst also improving their understanding of their own experiments.

BENEFITS

- Brand new equipment for new lab
- Complete refurbishment of old Chemistry Stores
- New Chemical Engineering courses to increase student intake
- Open to students and organisations