The Department of Chemical and Biological Engineering
Contents

- Undergraduate study
- Postgraduate study
Undergraduate programmes
Our Programmes

- BEng Chemical Engineering (3 years)
- BEng Chemical Engineering with Industrial Experience (4 years)
- MEng Chemical Engineering (4 years)
  - With Energy
  - With Nuclear Technology
  - With Biotechnology
  - With Chemistry
  - With a Modern Language
- MEng Chemical Engineering with a Year in Industry (5 years)
Course structure

- A variety of taught modules across all years of study
- Combination of traditional lectures, group tutorials, group projects and practical lab experiments: 20-25 hours contact time per week
- Group Design Project (in year 3) followed by individual Research Project (in year 4)
- Transfer between most course specialisations possible up until the end of Year 2
- All MEng programmes will require ATAS clearance
Careers support

- Careers and Industry Day
- Alumni Speed Networking
- Faculty Employability Team – support for international students
  - English Language skills
  - Confidence in interviews
  - CV surgeries
- CBE careers workshops – CVs, psychometric tests, interviews, assessment centres

2013-14: 84% in work or further study after 6 months
Industrial Experience

• Practical experience via a one-year paid industrial placement
• Support in finding placement (contacts etc.) provided by Department/Faculty/Careers Service
• Taken after year 2 (BEng) or year 3 (MEng)
• Range of employers:

- BASF
- e.on
- Phillips 66
- The Chemical Company
- ConocoPhillips
- IBM
- EDF
The Diamond

- £101 million investment in engineering teaching via new Engineering building
  - £81 million building
  - £20 million teaching & lab equipment
- Opened September 2015
- 17 state of the art practical laboratories
- 9 lecture theatres
- 400 PCs
- Library and Study Centre
- Student access 24/7/365
Diamond Pilot Plant

- World class pilot plant facility
- Hands-on experience of manufacturing at industrially relevant scales
- Processes tackle global challenges: energy and climate change; affordable medicines; and bioengineered products
- Both physical and virtual experiments
- Control room simulates a true industrial plant with advanced industry standard software
My Undergraduate Experience

Maha Khan
About myself 😊

Born and raised in Germany
Pakistani and Indian heritage
Moved to the UK for high school & University
Studying Chemical Engineering
Year 4 (Masters of Engineering)

A Levels: Maths, Physics, Chemistry, German, Economics
Why Chemical Engineering?
Why Chemical Engineering?

Great future prospects

Interest in its practical applications

Diverse & exciting market

Growing field

Recession proof

We have a great impact

Wanted a challenge!
Why Sheffield?

No. 1 Students Union
Outstanding International Community
Range of activities and extra curricular
Safest & greenest city in UK
Overall great Student Community

***

Great departmental support system
Opportunities for Undergraduates
Number 1 Student Satisfaction
Year 1 Student Representative

Yorkshire Branch Student Representative of the Energy Institute

President of Chemical Engineering Society

President of the Pakistani Society

Chemical Engineering Open Day Ambassador
Battle of the Bands
Frank Morton Sports Day
International Cultural Evening
World Week
International Food Festival
Faculty Ball
Language Festival
Bummit
Ambassador Work
Day trips
International Orientation Week
Holi – Eid – Chinese New Year – Navrooz – Diwali – Christmas
Postgraduate masters programmes
Our Programmes

- MSc (Eng) Biological and Bioprocess Engineering
- MSc (Eng) Biochemical Engineering with Industrial Management
- MSc (Eng) Environmental and Energy Engineering
- MSc (Eng) Energy Engineering with Industrial Management
- MSc (Eng) Process Safety and Loss Prevention
Course structure

• One year, full-time

• Allows you to further your studies through both taught modules and an individual research project

• The individual research project is a key component which gives you practical experience in your chosen field.

• You are allocated a personal supervisor for the duration of your programme.
Why Chemical Engineering at Sheffield?

- Our Masters programmes prepare you for a career in industry by providing you with practical experience of research
- Ideal preparation for further research at PhD level
- Strong industry connections
- Extensive career opportunities
- We are the market leader for MSc Process Safety and Loss Prevention.
Careers

Our graduates work in a variety of private and public sector organisations in a range of sectors including: bio-fuel; energy; oil and gas; petrochemical and pharmaceutical.
Graduate profile - Arjun R Krishna

- Arjun graduated in 2013 and studied MSc Biological and Bioprocess Engineering
- Selected for the prestigious Jubilee Scholarship
- Chose Sheffield due to the “industrial approach” of the programme, which was unlike competitor institutions
- Praises the support and encouragement offered by staff as well as the laboratory facilities in the department
- Founded his own company “Naturlich Global Beverages (P) Ltd” which raised INR 5 million within the first week of its incorporation
To Discover And Understand.