



National Formosa University Students Placement/Training Programme at Brunel University London

'Advanced Engineering Design and
Manufacturing' – Programme Plan

Presented by Kirsty Chishti – Project Administrator



Why come to study at Brunel University London?

- Cutting edge, industry applicable research at international and world class standards of Engineering.
- Specialist facilities and industry connections.
- NFU students will have a £275 student allowance to cover project costs.
- Attend lectures of various Level 5 courses within the MAE department.
- Only single site university in London. Everything is within a 10-minute walk, with central London under one hour away by train.



University League Tables 2021

Leading academic experts.
Top career support.
Modern facilities. Multicultural
environment.

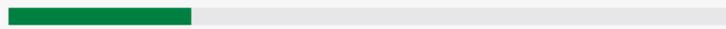
- Brunel ranks 84th in the UK
- Student satisfaction rating - 78%
- Research quality rating - 67%
- 150 of the world's countries are represented at Brunel.
- Virtual open day on 3 July.

Study level

Undergraduate 75%



Postgraduate 25%

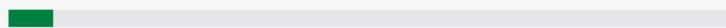


Where students come from

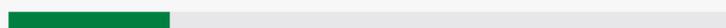
UK 72%



EU 6%



International 22%

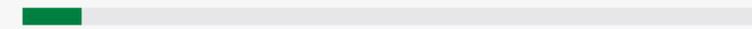


Study mode

Full-time 92%



Part-time 8%

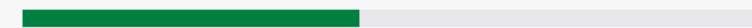


Student gender

Male 54%



Female 46%



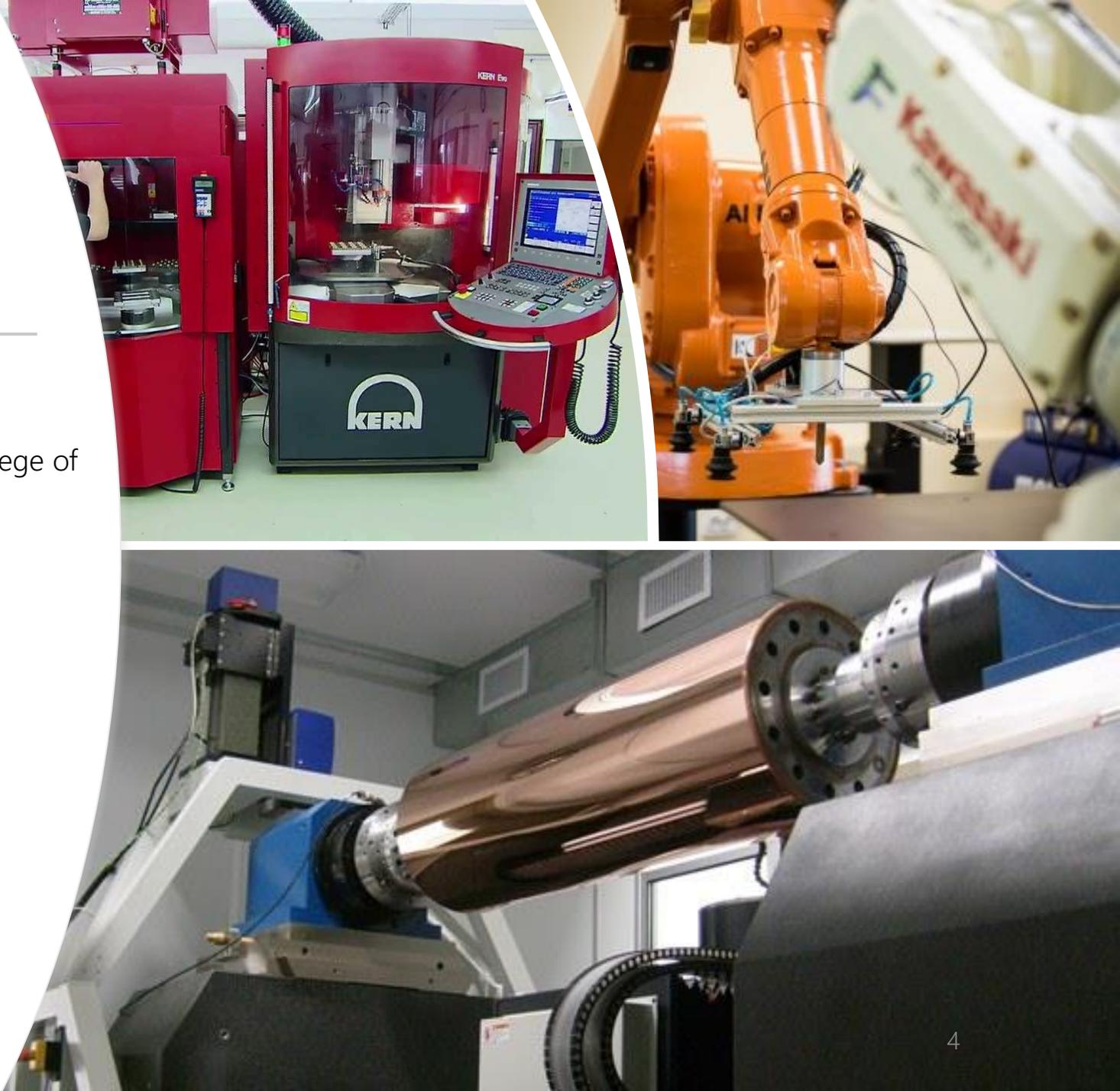
Advanced Engineering Design and Manufacturing Placement

At Brunel you will be based in the **Department of Mechanical and Aerospace Engineering**. This sits in the College of Engineering, Design and Physical Sciences (CEDPS).

Course structure:

Brunel's – Micro/Nano Manufacturing Themes plus Advanced Manufacturing and Design courses to align with NFU's - Machine Tools 4.0 and Smart Manufacturing

- Scientific approach
- Ultraprecision manufacturing in an industrial scale
- Multiscale Multiphysics based design and analysis





Academic supervision

Dr Bin Wang

Vice Dean International - CEDPS

Prof. Diane Mynors

Professor and Head of MAE department

Prof. Kai Cheng

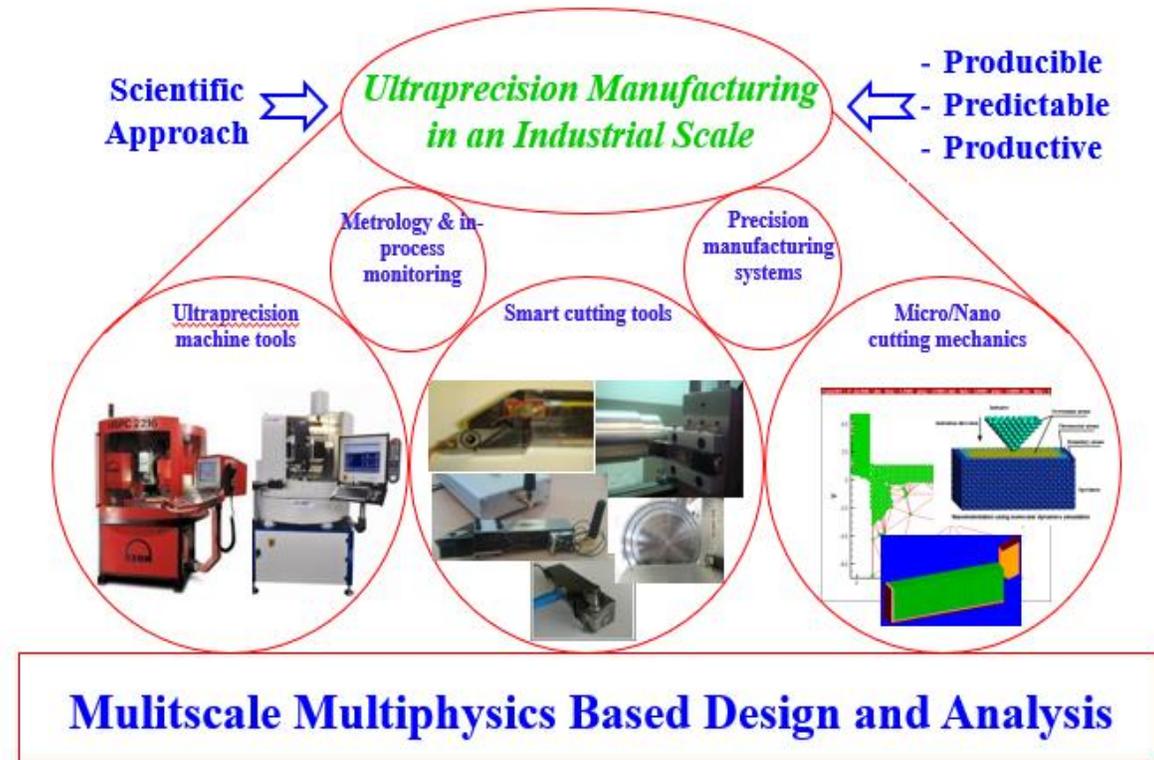
Professor and Theme Leader -
Micro-Nano Manufacturing

Advanced Engineering Design and Manufacturing Placement

Professor Kai Cheng -

Theme leader of Micro-Nano Manufacturing

We aim to focus on the technology, systems and management of modern industrial manufacturing including manufacturing methods, design, applied control and precision manufacturing.



Advanced Engineering
Design and Manufacturing
Placement 2019-2020

A selection of projects undertaken to the right

Projects with:

- British Railways
- Magna
- AirBus
- Siemens
- Jaguar Land Rover
- TfL London Underground
- Local manufacturing companies

Plus trips to:

Southern Manufacturing & Electronics

NHS Manufacturer	Development of the soft robots for high-value bio-medical manufacturing	Dr Yohan
	Design and analysis of smart EDM tooling for manufacturing aerospace rivets	Dr Atanas
	Development of ECM machine for micromachining of biomedical devices	Dr Atanas
	Design and analysis of smart surfaces with drag/noise reduction applied to aerofoil structures	Dr Tze Pei
and local manufacturing firms	e-manufacturing strategies with application to high-value sustainable manufacturing	Professor Mynors



Assessments

During your placement, you will be expected to complete three assessments

Pre-arrival:

- Brunel Language Test (BrunElt)

In the UK:

- Project Proposal report – 30% weighting
- Final report – 70% weighting



Thank you.
