

Pfizer UK Undergraduate Programme 2019/2020

Pharmaceutical Development Undergraduate (Materials Science, Formulation Development and Technology & Innovation)

Pharmaceutical Sciences

Drug Product Design

Department Overview

An essential component of Pfizer at Sandwich, our Pharmaceutical Sciences function supports Pfizer's mid to late stage portfolio translating new chemical entities into commercial drug products. Pharmaceutical Sciences at Sandwich is a fully integrated CMC (chemistry manufacturing and control) capability that encompasses state of the art active pharmaceutical ingredient synthesis and drug product design, as well as a cGMP manufacturing and clinical trials supply chain. Within Pharmaceutical Sciences, the Drug Product Design department utilises expertise in materials science, formulation design and process understanding to deliver innovative new medicines and manufacturing process improvements.

What can I achieve and what will I be responsible for whilst completing a placement at Pfizer?

The undergraduate placement will allow you to develop technical expertise in a specific area of the business and become a competent contributor to the work of our product and technology development teams. In addition, the role will provide greater understanding of the role of Drug Product Design and the wider Pharmaceutical Sciences organisation in the drug development process. Roles within Drug Product Design include:

- **Materials Science:** Concerned with the physical and analytical characterisation of active pharmaceutical ingredients, excipients, drug product intermediates and the final formulation through the use of established tools. The aim of this role is to provide a better understanding of new compounds and their interactions within a given formulation; this role will be of interest to candidates with a particular focus in analytics or particle characterisation.
- **Formulation and Process Development:** For candidates interested in product development, this role will concentrate on providing a greater level of understanding around the formulation characteristics and/or manufacturing processes required to deliver a successful drug product.

Responsibilities will vary depending on the undergraduate project but typically include:

- Planning and execution of practical laboratory based experimentation.
- Design and preparation of solid dosage forms for further characterisation e.g. product performance, processability etc.
- Understanding and application of procedures (SOPs, instruction manuals, risk assessments, etc.) to facilitate completion of laboratory experiments in accordance with approved safe working practices.
- Accurate and timely documentation of work (e.g. laboratory notebook entries and authoring of development reports) in line with accepted good practice.

What other opportunities and benefits do Pfizer offer?

Within the undergraduate placement there will be the opportunity to develop an understanding of cross-functional interactions. If appropriate there may also be an expectation that project outcomes will be delivered to a wider audience via conference attendance and poster presentations. In addition the chance to engage with volunteering activities (for example with the Academic Team supporting the education of STEM subjects - Science, Technology, Engineering and Maths) is also encouraged.

When can I start?

Placements will start on 2nd September 2019 and will run for 12 months.

PERSON SPECIFICATION

Knowledge

- Studying for a degree in pharmaceutical or allied sciences i.e. pharmacy, pharmaceutical technology, chemistry, chemical engineering,
- Evidence of sustained level of performance / achievement
- Practical application of knowledge in a laboratory and / or manufacturing environment

Technical Ability

- Good practical laboratory skills are essential
- Ability to learn and apply established procedures in a reliable and consistent manner to assigned project tasks
- Effective interaction and communication (oral and written) within a team structure
- Ability to manage own time to complete assigned tasks to agreed deadlines
- General awareness of lab safety

Motivation

- Passion for pharmaceutical materials characterisation, formulation and / or process development of pharmaceutical technology in the realm of bulk particle engineering
- Enthusiastic in a laboratory-based, hands-on role working with high-value analytical or manufacturing equipment
- Desire to learn – broaden own knowledge base and acquire new practical skills
- Attention to detail
- Flexibility to work within a demanding laboratory environment

Please note that we only accept application forms. Please do not send over your CV or cover letter as they will not be considered.