

## JUNIOR PHARMACEUTICAL RESEARCHER

# Tariq Hussain



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Pharmaceutical Science graduate from the University of Nottingham with a 12 month industrial placement at AstraZeneca. Prepared 90 formulation batches across 4 oral solid dosage projects and generated 250+ dissolution profiles. Experienced in GMP environments, wet granulation, direct compression, and tablet coating. Proficient with HPLC, dissolution testing, and particle size analysis.

## EXPERIENCE

Jul 2024 – Jun 2025

**Industrial Placement Student, Oral Product Development**, AstraZeneca, Macclesfield

12 month placement in the Oral Product Development group, working on formulation and analytical characterisation of oral solid dosage forms.

- Prepared **90 formulation batches** across 4 projects using wet granulation, dry granulation, and direct compression
- Generated **250+ dissolution profiles** using Sotax AT7 systems across multiple media conditions
- Optimised a tablet coating process on the fluid bed coater that improved drug release consistency by **18%** (relative standard deviation reduced from 8.4% to 6.9%)
- Completed GMP batch record documentation for **35 pilot-scale batches** and contributed to 2 deviation investigations

Jan 2023 – Jun 2024

**Pharmacy Dispensing Assistant (Part Time)**, Boots Pharmacy, Nottingham

Part time dispensing assistant during term time, working 16 hours per week.

- Dispensed an average of **120 prescriptions per shift** under pharmacist supervision
- Managed stock rotation and expiry date checking for **2,000+ product lines**

## EDUCATION

Sep 2021 – Jun 2025

**BSc (Hons) in Pharmaceutical Science (with Industrial Placement)**, University of Nottingham, Nottingham

Upper Second Class Honours (2:1). Modules include pharmaceutical formulation, pharmacology, drug delivery, pharmaceutical analysis, and pharmacokinetics.

## SKILLS

Oral Solid Dosage Formulation • Wet Granulation & Direct Compression • Dissolution Testing (Sotax AT7) • HPLC (Agilent 1260 Infinity II) • Particle Size Analysis (Malvern Mastersizer 3000) • Tablet Press Operation (Manesty, Korsch) • Fluid Bed Coating (Glatt GPCG 1) • GMP Documentation & Batch Records • Microsoft Excel & Minitab • GraphPad Prism

## CERTIFICATIONS

Jul 2024

**GMP Awareness Training (AstraZeneca Internal)**, AstraZeneca

Sep 2022

**Royal Pharmaceutical Society Student Member**, Royal Pharmaceutical Society

## LANGUAGES

English (native) • Urdu (conversational)

## PROJECTS

Oct 2024 – Apr 2025

**Final Year Project: PLGA Nanoparticles for Controlled Release of Ibuprofen**

Developed and optimised PLGA nanoparticle formulations for controlled oral delivery of ibuprofen using single emulsion solvent evaporation.

- Prepared **60 nanoparticle formulations** across a Design of Experiments (DoE) matrix varying polymer concentration, surfactant type, and homogenisation speed
- Characterised particle size and zeta potential using DLS, with optimised formulations achieving a mean diameter of **185 nm (PDI 0.12)**
- Improved drug loading efficiency by **35%** compared to the literature baseline through surfactant optimisation

## REFERENCES

**Dr. Claire Mayberry**

Senior Scientist, Oral Product Development, AstraZeneca, claire.mayberry@astrazeneca.com, +44 7700 900 523

**Prof. Robert Sherwood**

Professor of Pharmaceutics, University of Nottingham, r.sherwood@nottingham.ac.uk, +44 7700 900 618

## EXTRA CURRICULAR ACTIVITY

Sep 2023 – Jun 2024

**Vice President, Nottingham Pharmaceutical Society**

Organised 5 industry talks (speakers from AstraZeneca, Boots, MHRA) and a site visit to the Boots Beeston manufacturing facility. Grew society membership from 60 to 95 students.