



Fatima Al-Hassan

Junior Chemical Engineer

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Chemical engineering graduate from Teesside University with a 12-month industrial placement at a speciality chemicals manufacturer. Contributed to **4 process improvement projects** that delivered combined annual savings of **£85,000**. Proficient in Aspen HYSYS, HAZOP methodology, and Six Sigma principles, with a **First Class Honours (72% average)** and a strong commitment to process safety and sustainability.

Experience

Chemical Engineering Placement Student, Huntsman Corporation, Wilton, Redcar

Jul 2024 – Jun 2025

Completed a 12-month sandwich placement at the Wilton site, working within the process engineering team on a polyurethane production line.

- Led **2 process optimisation studies** that reduced raw material waste by **8%**, saving an estimated **£50,000 annually**
- Contributed to **2 HAZOP reviews** for proposed plant modifications, documenting **35 action items**
- Analysed **6 months of process data** using Minitab to identify trends in product quality variation
- Created **12 standard operating procedures (SOPs)** for unit operations including distillation, filtration, and heat exchange

Student Ambassador & Lab Demonstrator, Teesside University, Middlesbrough

Sep 2023 – Jun 2024

Promoted the School of Science, Engineering and Design at open days and demonstrated chemistry lab sessions for first-year students.

- Represented the university at **6 recruitment events**, speaking to **200+ prospective students and parents**
- Demonstrated **3 lab sessions per week** covering analytical chemistry and process engineering fundamentals

Education

MEng (Hons) Chemical Engineering in Chemical Engineering, Teesside University, Middlesbrough

Sep 2020 – Jul 2025

Graduated with First Class Honours (**72% average**). Programme accredited by IChemE.

- Final year design project: conceptual design of a green hydrogen production plant, graded **76%**
- Relevant modules: Reactor Design, Thermodynamics, Process Control, Safety & Loss Prevention, Separation Processes

Skills

Process Simulation (Aspen HYSYS) • HAZOP & Risk Assessment • Six Sigma (Yellow Belt) • Statistical Analysis (Minitab) • P&ID Reading & Creation • Mass & Energy Balances

• Process Data Analysis • SOP Development • AutoCAD • Laboratory Analysis (HPLC, GC) • Health & Safety (COSHH, COMAH) • Technical Report Writing

Certifications

IChemE Affiliate Member, Institution of Chemical Engineers

Jul 2025 – Jul 2025

Six Sigma Yellow Belt, IChemE

Mar 2025 – Mar 2025

NEBOSH National General Certificate (in progress), NEBOSH

Sep 2025 – Mar 2026

Languages

English - Native • Arabic - Native

Extra Curricular Activity

Treasurer - Teesside University Engineering Society

Sep 2023 – Jun 2024

Managed a budget of **£3,500** and organised **4 industry site visits** to chemical plants on Teesside including SABIC and Ensus.