

Tariq Hassan

Structural Engineer

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Structural engineer with five years of experience in building structures, currently working on mixed-use and residential schemes in the North West. Comfortable with steel, concrete, and timber design to Eurocodes, and increasingly involved in retrofit and strengthening work on existing buildings. Working towards Chartered status with IStructE, with my professional review booked for late 2026.

■ EXPERIENCE

Structural Engineer, Arup, Manchester

Jun 2023 – Present

Design engineer on building structures projects across the North West of England.

- Lead engineer on a **14-storey residential tower** in Manchester city centre — RC frame with post-tensioned slabs
- Designed the steel transfer structure for a **£28 million mixed-use scheme** at NOMA Manchester
- Carried out structural assessments on **6 existing buildings** for change-of-use applications
- Produce calculations, drawings, and technical reports — typically managing **3–4 projects simultaneously**

Graduate Structural Engineer, Atkins (now AtkinsRealis), Manchester

Sep 2021 – May 2023

Part of the buildings team working on education, healthcare, and commercial projects.

- Designed steelwork for a **£9 million secondary school extension** in Stockport for Stockport Metropolitan Borough Council
- Produced foundation designs for a **3-storey NHS health centre** on contaminated land in Salford
- Completed **120+ structural calculations** to Eurocodes and checked by senior engineers

Structural Engineering Intern, Curtins, Manchester

Jun 2020 – Sep 2020

Summer placement in the Manchester office working on residential and retail projects.

- Assisted with beam and column design for a **48-unit apartment block** in Ancoats
- Carried out **pad and strip foundation sizing** for a retail unit extension

■ EDUCATION

MEng (Hons) in Civil & Structural Engineering, University of Manchester, Manchester

Sep 2017 – Jun 2021

First Class Honours. Final year project on the progressive collapse resistance of steel-framed buildings, using Oasys GSA for nonlinear analysis.

■ SKILLS

Structural Design to Eurocodes (EC2, EC3, EC5) • Reinforced Concrete Design • Steelwork Design • Tekla Structural Designer • Autodesk Robot Structural Analysis • AutoCAD & Revit (BIM) • Foundation Design • Structural Assessments & Surveys • Technical Report Writing • CDM Designer Duties

■ CERTIFICATIONS

IStructE Professional Review – Booked, Institution of Structural Engineers

Oct 2026

CSCS Card – Professionally Qualified Person, Construction Skills Certification Scheme

Sep 2021 – Sep 2026

Temporary Works Coordinator (TWC) Training, CIRIA

Mar 2024

■ LANGUAGES

English (native) • Urdu (conversational)

■ PROJECTS

Victoria Riverside Residential Tower – Arup

Jan 2024

Lead design engineer on a 14-storey build-to-rent scheme in Manchester city centre.

- Designed the **RC frame with post-tensioned flat slabs** achieving 8.5m clear spans
- Coordinated with the architect and MEP engineer to resolve **40+ clash issues** in the BIM model
- Currently in RIBA Stage 4 with construction due to start Q3 2026

Stockport School Extension – Atkins

Mar 2022 – Jan 2023

Structural design of a two-storey steel-framed extension to an existing secondary school.

- Designed **42 steel members** and the connection details to tie into the existing 1970s concrete frame
- Produced construction issue drawings reviewed and approved by **Building Control in one submission**

■ REFERENCES

Sarah Whitworth, Associate – Buildings, Arup, sarah.whitworth@arup.com, +44 7700 900 385

Michael Ndlovu, Senior Structural Engineer, AtkinsRealis, michael.ndlovu@atkinsrealis.com, +44 7700 900 512

■ EXTRA CURRICULAR ACTIVITY

IStructE Young Members Group – North West Committee

Jan 2023

Help organise evening lectures and site visits for early-career structural engineers in Manchester. Arranged a site visit to the Co-op Live Arena during construction with 45 attendees.

STEM Ambassador – Manchester Schools

Sep 2022

Visit local secondary schools twice a term to run bridge-building workshops and talk about engineering careers. Have reached approximately 300 students across 8 schools.