

Rory McAllister

Civil Engineer

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Civil engineer with five years of experience in highways and drainage design, currently working on a £340 million road improvement scheme in central Scotland. Chartered with ICE since 2025. Comfortable taking projects from feasibility through to construction support, with particular strength in drainage modelling and earthworks design.

EXPERIENCE

Civil Engineer, AECOM, Glasgow

Jan 2023 – Present

Highways and infrastructure design on major road schemes across Scotland.

- Lead drainage designer on the **A9 Dualling programme** — a £340 million Transport Scotland scheme
- Designed **14km of highway drainage** including 3 attenuation ponds and 2 culvert crossings
- Produced earthworks calculations for **1.2 million cubic metres** of cut-and-fill across 4 sections
- Coordinate with **6 sub-consultants** and attend fortnightly design review meetings with the client

Graduate Civil Engineer, Mott MacDonald, Glasgow

Jun 2021 – Dec 2022

Part of the transportation team working on local authority road and active travel projects.

- Detailed design of **3.5km of segregated cycle path** for Glasgow City Council's active travel network
- Carried out MicroDrainage modelling for a **200-unit housing development** in East Kilbride
- Produced **45+ technical drawings** in AutoCAD Civil 3D for construction issue

Placement Civil Engineer, Balfour Beatty, Edinburgh

Jun 2019 – Jun 2020

Year-long industrial placement on the Edinburgh to Glasgow Improvement Programme (EGIP) rail electrification project.

- Assisted with setting-out and quality checks on **28km of overhead line equipment foundations**
- Managed daily material deliveries for a site team of **35 operatives**
- Produced weekly progress reports tracking spend against a **£12 million work package budget**

EDUCATION

MEng (Hons) in Civil Engineering, University of Strathclyde, Glasgow

Sep 2016 – Jun 2021

First Class Honours (including one-year industrial placement). Final year project on sustainable urban drainage systems (SuDS) for Scottish climate conditions.

SKILLS

Highway & Road Design (DMRB), Drainage Design & MicroDrainage, AutoCAD Civil 3D, Earthworks Design & Volume Calculations, Flood Risk Assessment, Technical Report Writing, Site Supervision & Construction Support, Transport Scotland Standards, Health & Safety (CDM Regulations), BIM Level 2 (Revit, Navisworks)

CERTIFICATIONS

Chartered Member (CEng MICE), Institution of Civil Engineers (ICE)

Jan 2025

CSCS Card – Professionally Qualified Person, Construction Skills Certification Scheme

Jun 2021 – Jun 2026

CIRIA SuDS Manual Training, CIRIA

Jun 2023

LANGUAGES

English (native)

PROJECTS

A9 Dualling – Pass of Birnam to Tay Crossing

Mar 2023

Lead drainage designer on a 9.5km section of the A9 dualling programme in Perthshire.

- Designed **9.5km of highway drainage** including SuDS features to meet SEPA requirements
- Modelled a **1-in-200-year flood event** to size three attenuation basins
- Design passed the Transport Scotland Stage 3 review with **zero major comments**

Cathkin Braes Active Travel Route – Mott MacDonald

Jan 2022 – Oct 2022

Detailed design of a 3.5km segregated cycle and pedestrian route for Glasgow City Council.

- Designed the route alignment, drainage, and **2 signalised crossings**
- Coordinated with Scottish Water and SGN on **14 utility diversions**

REFERENCES

Eilidh Campbell, Associate Director – Transportation, AECOM, eilidh.campbell@aecom.com, +44 7700 900 523

Fraser Muir, Senior Engineer, Mott MacDonald, fraser.muir@mottmac.com, +44 7700 900 641

EXTRA CURRICULAR ACTIVITY

ICE Graduate Mentor

Jun 2025

Mentoring two graduate engineers at AECOM through their ICE professional review, meeting monthly to review development objectives and written submissions.

Volunteer – Bridges to Prosperity

Mar 2022 – Apr 2022

Two-week volunteer build in Rwanda constructing a 52-metre suspended footbridge serving a community of 3,000 people. Responsible for abutment foundation setting-out.