

Emma Griffiths

JUNIOR ENVIRONMENTAL ENGINEER



EXPERIENCE

Environmental Engineering Intern, Stantec, Cardiff *Jun 2025 – Aug 2025*
Completed a 12-week summer internship within the water and environment team.

- Assisted with design calculations for **3 sustainable drainage systems (SuDS)** for residential developments totalling **450 homes**
- Conducted **20+ site walkover surveys** and environmental baseline assessments for contaminated land projects
- Prepared **4 sections of an Environmental Impact Assessment (EIA)** for a water treatment works upgrade
- Created **10 GIS-based environmental constraint maps** using QGIS for planning submissions

Lifeguard & Swimming Teacher (Part-time), Newport Live, Newport *Sep 2022 – May 2025*

Worked weekends and holidays at the Newport Centre swimming pool.

- Supervised pool safety for **200+ swimmers per shift** and responded to **4 emergency incidents** over 3 years
- Taught swimming lessons to groups of **8 to 12 children** aged 4 to 11 across beginner and intermediate levels

CERTIFICATIONS

ICE Graduate Member, Institution of Civil Engineers *Aug 2025 – Aug 2025*

CSCS Green Card, Construction Skills Certification Scheme *May 2025 – May 2025*

National Pool Lifeguard Qualification, Royal Life Saving Society UK *Jul 2022 – Jul 2022*

EXTRA CURRICULAR ACTIVITY

Volunteer - Keep Wales Tidy Beach Clean Programme *Mar 2023 – Jun 2025*

Organised and participated in **15 beach cleans** across the South Wales coastline, collecting **over 200kg of marine litter**.

PROFILE

Environmental engineering graduate from Cardiff University with a summer internship at a water and wastewater consultancy. Assisted with the design and environmental impact assessment of **5 water infrastructure projects** and conducted **20+ site investigations** for contaminated land assessments. Proficient in GIS, AutoCAD, and flood risk modelling with a **2:1 (65% average)** and a genuine commitment to sustainable infrastructure and environmental protection.

EDUCATION

MEng (Hons) Environmental Engineering in Environmental Engineering

Cardiff University, Cardiff
Sep 2021 – Jul 2025

SKILLS

- Environmental Impact Assessment
- Sustainable Drainage (SuDS) Design
- Contaminated Land Assessment
- Flood Risk Assessment
- GIS (QGIS & ArcGIS)
- AutoCAD
- Water Quality Sampling & Analysis
- Site Investigation & Walkovers
- Technical Report Writing
- Microsoft Excel & Power BI
- Health & Safety (CDM Awareness)
- Stakeholder Engagement

LANGUAGES

- English - Native
- Welsh - Basic (A2)

CONTACT

Newport, United Kingdom
emma.griffiths@gmail.com
+44 7423 719 468
[linkedin.com/in/emmag-enveng](https://www.linkedin.com/in/emmag-enveng)