




Andrew Baillie

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Summary

Process Engineer with experience in managing and developing feasibility projects, developing and presenting business cases, supporting the delivery of scoping projects and working with partner consultancies to allow an evidenced-based approach to investment decisions. Skilled in liaising between business and technical areas to achieve on-time and on-spec project completions, and in managing communications to inform and reassure key stakeholders.

Experience

Scottish Water / Delivery Advisor

Edinburgh, UK Sep 19 - Present

Role Summary

Responsible for the coordination, development and delivery of strategic and tactical communications to an internal audience. I apply design and engineering thinking to develop and execute communication plans for change projects, ensuring stakeholders are connected to key strategic initiatives.

Responsibilities

- Engage with internal stakeholders to gather communication requirements, compile project documentation, agree scope, and schedule and develop communication plans.
- Plan and provide communication coordination across concurrent change projects.
- Continuously evaluate, plan, develop and implement data-driven communications processes to ensure that the entire internal audience is informed and engaged.
- Develop content and present updates to leaders on current project progress.

Achievements

Used a process of problem exploration and definition, customer testing and iteration with internal stakeholders to develop and deliver the net-zero routemap for an internal and regulatory audience.

I coordinated, developed and designed the communications strategy, plan and content for the reopening of offices during the Covid-19 pandemic. This impacted an audience of 4500 people.

I conducted a full email channel review, based on both quantitative and qualitative measurement. Using this information I developed the business case and managed the implementation of external software that would increase engagement and understanding of communications across the organisation.

Scottish Water / Process Engineer

Edinburgh, UK Sep 17 - Sep 19

Role Summary

Completed the two-year graduate programme in which I rotated through a different technical role every six months. I worked with each team to provide engineering support and identify and resolve inefficiencies.

Responsibilities

- Developed and maintained a database of water-quality data and projects. I used this to engage with SEPA to provide evidence-based updates on water-quality projects and progress of key environmental projects.
- Responsible for leading process engineering project updates with project engineers and stakeholders. Assessed and developed proposal process designs for water treatment works (WTW) to accommodate for expected growth.
- Assessed site consents, flow and load data, and current capacities for the business’s list of potential growth sites. I used the data to recommend growth projects for promotion, to facilitate workshops and report key findings to project stakeholders.
- Reviewed site reports completed by partner consultancies for accuracy checking the data against telemetry, published population equivalents (PE) and calculated PE, reporting findings with improvement suggestions.
- Engaged in post-site visit workshops to communicate immediate issues and provide recommendations for future improvements based on the results of WTW analysis.

- Conducted root-cause analysis and stakeholder interviews to identify time waste and procedure issues within the Small Value Capital Delivery (SVCD) programme.
- Conducted health and safety assessments for various sites, including pumping stations and treatment works, advising of hazardous areas and ensuring mitigations are in place.
- Completed pre-site visit investigations, including risk assessment, PFD assessment, extraction of water quality data and development of specific technical specification questions for the WTW Team Leader.

Achievements

I successfully presented the business case to the executive leadership team, suggesting four options for rectifying the problems within the SVCD programme. This led to the development of a SVCD management app.

Successfully negotiated with SEPA to remove a number of environmental projects from the SR15 technical expression using data to make an evidence- based justification.

Researched and completed a report on the root cause of total nitrogen (TN) build up, as well as the current licensing methodology and assessment procedures, to prove the risk of further licensing was low.

Solid Form Solutions / Project Scientist

Edinburgh, UK Sep 16 - Mar 17

Role Summary

Developed and executed crystallisation research project proposals to provide recommendations for continued research and innovative methods for effective process scale-up.

Responsibilities

- Negotiated with clients to agree project scope and technical possibilities based on client requirements and available budget.
- Evaluated and troubleshoot a variety of client technical and operational issues, using an analytical and methodical approach to develop innovative solutions to resolve problems.
- Developed weekly communication packs to deliver key results and updates to clients.

Astrazeneca / Process Engineer

Macclesfield, UK Sep 14 - Sep 15

Role Summary

I was the Process Engineer on the pilot scale manufacture of a phase 3 drug product. I provided process and safety recommendations and identified and remedied process problems.

Responsibilities

- Managed the manufacture of an early phase drug product, completing safety tests and communicating with current good manufacturing practices (cGMP) consultants and product suppliers.
- I provided all process engineering input for the large-scale pilot plant manufacture of a early phase API, arranging for safety and environmental tests to be conducted as well as managing the investigation into process problems.

Education

Heriot-Watt University / First, MEng Chemical Engineering with Oil & Gas Technology and a Diploma in Industrial Training

Edinburgh, UK Sep 10 - May 16

Skills

Tools	Professional Skills	Additional
<ul style="list-style-type: none">◦ MS Visio◦ Excel◦ Python 3◦ MS Project◦ Word◦ Powerpoint◦ RStudio	<ul style="list-style-type: none">◦ Introduction to LEAN management◦ APM Project Management Fundamentals◦ Introduction to AGILE project management◦ CSCS Site Visitor◦ EUSR National Water Hygiene	<ul style="list-style-type: none">◦ Full UK driving licence◦ Associate member of the Institute of Chemical Engineers (ICHEME)