

**GAS and UTILITY
TECHNOLOGY
LTD.**

COMPANY PROFILE ■



Gas and Utility Technology Ltd

4/5 Pentland Court
Saltire Centre
Glenrothes
Fife
KY6 2DA

www.gasutil.co.uk
info@gasutil.co.uk

Telephone: 01592 774756
Fax: 01592 771698

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■ INTRODUCTION

Background:

Gas and Utility Technology Ltd was established in 1996 and work throughout Scotland successfully delivering Design, Construction and Consultancy services in the utility industry.

We understand the importance of simple and effective communication with our clients during the design and construction phase of projects and assign an engineer who becomes the single point of contact for all elements of the work throughout the full life cycle of the project.

Having successfully completed over 4000 projects we understand our Clients' needs and our Company is structured to provide a complete turnkey package covering contestable and non-contestable aspects of work required to install or modify utility infrastructure for industrial/commercial premises as well as industrial/commercial and housing developments.

We have the accreditations and registrations required to deliver our services in accordance with current industry standards and legislation. These accreditations, supported by an internal quality and safety management system accredited to BS EN ISO 9001: 2008, serve to reassure clients that we focus on the level of competence and quality of service required to ensure system compliance and customer satisfaction.

Background to the Provision of Services:

Major changes have taken place within the United Kingdom over the last decade to facilitate the development of competition within the Industrial, Commercial and Domestic Sectors of the Utility Industry.

Changes in legislation enable developers and end users to have their utility infrastructure designed, installed and commissioned by a competent company other than the statutory undertakers i.e. Scotia Gas Networks, Scottish Water etc.

Recognising the impact of the above changes, in particular the difficulties it has created for clients requiring to arrange installation of new and modification of existing utility supplies and downstream supply systems, Gas and Utility Technology Ltd are committed to providing a comprehensive design, construction and consultancy service to address the individual needs of a diverse range of clients.

Our Aims:

As a customer focused organisation we recognise that our clients are our future. We aim to provide a first class quality service based on best cost design solutions while complying with the specified requirements of the client, technical standards and legislation.

Our Values:

Fundamental to the strategy is our customer satisfaction and through a process of continuous assessment and evaluation, products and services will be improved in line with the aims of the company.

■ NATURAL GAS – DISTRIBUTION MAINS AND SERVICES

Scope of Work:

New Installations, Alterations and Disconnections.

Low Pressure Mains and Services – 21mbar to 75mbar.

Medium Pressure Mains and Services – 75mbar to 2 bar.

Intermediate Pressure Mains and Services – 2bar to 7 bar.

Planning & Design:

- Initial feasibility study including cost estimates for large infrastructure projects.
- Detailed site survey to establish project specific requirements.
- Assessment of gas load and load profile for non-domestic gas users.
- Assessment of diversified and non-diversified gas demand for multiple housing sites.
- Liaison with the upstream Gas Transporter who owns the existing gas mains infrastructure to establish specific site design parameters.
- Identify a suitable Gas Transporter and arrange for adoption of the gas supply system following commissioning.
- Identification of a suitable point of connection to the public gas supply network.
- Identify any chargeable or non-chargeable mains reinforcement that may be required.
- Detailed design, pipe sizing and analysis using industry standard design software.
- Preparation of routine and non routine procedures for connection and commissioning purposes.
- Arrangement of road opening permits and any road closure/diversionary works with local authorities.
- Arrangement of wayleaves, deed of servitude and easement planning.
- Design work associated with any rail, bridge or river crossing.
- Preparation of risk assessments, method statements, COSHH assessments and safe systems of work.
- Preparation and implementation of all requirements to comply with CDM Regulations.

Construction & Commissioning:

- Installation of new gas mains and services.
- Diversion and replacement of existing gas mains and services.
- Installation of screwed and welded steel network risers and laterals for flatted property.
- Implementation and maintenance of a safe and secure working environment to comply with CDM 2015 requirements.
- Identification and tracing of existing underground utility plant.
- Implementation of traffic management systems including road closures.
- Supply and installation, of diversionary signage and traffic control equipment.
- Carry out pipe track excavation and reinstatement works in the public highway and within the site.
- Testing and commissioning of all pipework and associated equipment.
- Prepare Routine Operational Procedures and carry out the final connection to existing gas mains infrastructure.

Typical Customers:

- Industrial & commercial property, energy centres, housing developments, flatted property.

■ NATURAL GAS - METERING INSTALLATIONS AND ENCLOSURES

Scope of Work:

Primary Gas Meters and Meter Regulator Installations up to 7bar.

Secondary Gas Meters and Meter Regulator Installations up to 7bar.

Gas Meter Regulator Installation Enclosures.

Acoustic Gas Meter Regulator Installation Enclosures.

Noise Impact Assessments.

Design, Construction and Installation of Meter Regulator Installations, Bases and Enclosures.

Installation and Commissioning of Meter Correctors, AMR Modems and Barrier Units.

Planning and Design:

- Identification of strategic and industry compliant locations for gas meter installations.
- Design of gas pressure regulator and meter installations for site specific load profile.
- Design of gas pressure regulator and meter enclosures and bases.
- Assessment of additional enclosure requirements i.e. acoustic attenuation and explosion relief.
- Obtain asset value from adopting Gas Transporter for housing developments and flatted property.
- Issue and registration of meter point reference numbers (MPRNs).
- Preparation and progressing of planning consent applications for pressure regulator installations.
- Preparation of hazardous area zone classification drawings and risk assessments in accordance with the Dangerous Substances and Explosive Atmospheres Regulations 2006 (DSEAR).
- Arrangement of gas supply contracts and gas supply agreements.

Installation & Commissioning:

- We can arrange for installation, removal or relocation of all meter types.
- Supply and installation of pressure regulating and metering equipment.
- Commissioning and maintenance of pressure regulating and metering equipment.
- Construction and installation of meter regulator installation bases and enclosures.
- Provision of all civil works associated with the establishment of a pressure regulator installation/ meter installation compound including installation of suitable security fencing.
- Supply and installation of meter housing kiosks and compartments.
- Supply, installation and commissioning of meter correctors, AMR modems and barrier units.



■ NATURAL GAS - INSTALLATION PIPEWORK

Scope of Work

Planning & Design:

Gas and Utility Technology Ltd is a Gas Safe registered company and members of our management team and senior engineering staff are professional engineers who previously held senior positions within the Industrial/Commercial Technical Services section of British Gas.

The service includes the following elements:

- Survey of existing installation pipe systems to confirm compliance with current safety legislation and engineering standards.
- Design of gas outlet pipe systems and associated equipment for industrial/commercial gas users.
- Design of secondary gas metering equipment and enclosures.
- Design of gas outlet pipe system extensions/alterations.
- Gas outlet pipe system performance modelling and testing under steady state and dynamic load conditions to establish system performance and any strategic upsizing required to resolve pressure problems or supply an increase in gas load.
- Design of kitchen ventilation and gas supply interlock installations.
- Design of laboratory/domestic science safety shut off installations comprising automatic isolation valve with weep proving system for educational and other establishments.
- Pipework modelling analysis and undertaking pressure validation surveys to establish strategic reinforcement.
- Hazardous area classification and risk assessments.

Construction:

- Construction, testing, commissioning and de-commissioning of industrial/commercial gas outlet pipe systems and downstream compression/pressure regulating equipment.
- Installation of secondary gas meters, construction of external gas meter enclosures and bases.
- Alteration and extension of existing gas outlet pipe systems.
- Strategic upsizing of existing gas outlet pipe systems.
- Testing and commissioning of gas outlet pipe systems and associated equipment.
- Installation and commissioning of kitchen ventilation/gas supply interlock systems.
- Installation, calibration and commissioning of gas safety equipment comprising automatic isolation valves with weep proving systems in educational and other establishments.

Maintenance:

- Maintenance of gas outlet pipe systems.
- Strength/tightness testing and purging.
- Site surveys and problem solving.



■ LIQUEFIED PETROLEUM GAS

Scope of Work

Design and Construction:

- Gas mains infrastructure, services and pressure regulating/metering equipment for domestic, industrial and commercial developments.
- Gas services and pressure regulating/metering equipment for individual industrial/commercial consumers.
- Pressure testing and commissioning of all installed pipework and associated pressure regulating/metering equipment.
- Alteration and extension of existing gas outlet pipe systems.
- Testing and commissioning of outlet pipe systems and associated equipment.

Maintenance Services:

- Maintenance of outlet pipe systems.
- Soundness testing and purging.
- Site surveys/trouble shooting.
- Decommissioning of gas outlet pipe systems.
- Installation and commissioning of automatic isolation valves.
- Maintenance of pressure regulating/metering equipment.

Do you use LPG in your business?

If so it is vital you read this important safety information from the Health and Safety Executive (HSE)

When liquefied petroleum gas (LPG) is stored and used in installations compliant with relevant health and safety legislation and industry codes of practice, it is a safe fuel. However, when it is not the results can be catastrophic. In May 2004 a gas leak from a corroded buried pipe led to an accumulation of gas in the basement of a Glasgow plastics factory. This resulted in an explosion which caused the building to collapse - nine people were killed and 33 were injured, some critically.

To reduce the risk of another incident the UK LPG industry and the Health and Safety Executive (HSE) consider that underground metallic pipework should be replaced with pipework made from materials such as polyethylene (plastic) which won't corrode.

Replacing buried metallic pipework/fittings at commercial and industrial premises throughout the UK will be a major undertaking and therefore needs to be prioritised based on the risk of pipeline failure and gas entering a nearby building.

The HSE Also State:

The responsibility for ensuring the safety and maintenance and replacement in industrial LPG pipework will normally rest with site operators including landlords, site owners or business directors - although it can also fall to gas suppliers if they own the pipe.

Site operators are legally responsible for complying with safety regulations.

Gas and Utility Technology Technology Ltd has the necessary skills and qualifications to carry out the pipe replacement as required by the HSE in this notice.

■ WATER INFRASTRUCTURE

Gas & Utility Technology provides clients with support services including design, construction, maintenance and consultancy services relating to public and private water mains systems, communication pipes, sub-meters and service pipes to supply domestic, industrial and commercial sites both new and existing.

Our company provides a Lloyds WIRS accredited design and construction service, for the installation of site water mains and services supplying housing and industrial/commercial developments. Following commissioning our installed site water supply systems are adopted by Scottish Water and integrated into the public supply network.

Of equal importance we recognize the need to meet our client's requirements regarding the programming and installation of utility infrastructure. We understand the importance of ease of contact and having effective communication with our clients both during the design and construction phase of projects. At project commencement we assign an engineer who becomes the single point of contact for all elements of the work. In the case of water supply systems this includes the design of the new private and adopted infrastructure and its installation and commissioning. Once assigned our engineer continues to liaise with the client through the full life cycle of the project.

During the construction phase we are readily contactable and responsive to any site requests for information/clarification on the installation of the utility mains, services and meters.

Within the water sector of the market we provide a range of services including the following design and construction activities:

- Water distribution pipelines.
- Water mains infrastructure, services and associated equipment/fittings for domestic and non-domestic developments.
- We also undertake the hydraulic testing and commissioning of all our installed pipework and associated equipment/fittings.
- Disinfection of all installed pipework and associated equipment/fittings.
- Supply and installation of secondary/sub-meters, including housings/chambers.
- Installation/construction of underground chambers for water equipment/fittings, as necessary.

Our company effectively provides a single point of contact for the design, construction, testing and commissioning of water supply infrastructure including all liaison with Scottish Water. In providing the above services, all necessary consultation and liaison with Scottish Water is undertaken to establish specific site design parameters and reinforcement requirements. Also in the case of Non-Domestic supply systems, our service includes for all liaison with registered companies under the Scottish Licensed Provider Scheme (Business Stream et al.) to arrange the water meter installation and supply of water.

Typical Customers:

- Industrial and commercial property, energy centres, housing developments, blocks of flats/apartments and individual domestic property.

■ MULTI UTILITY INFRASTRUCTURE

Gas and Utility Technology Ltd provide technical support for clients during the planning phase of a development through to installation of a multi utility infrastructure.

We provide a single point of contact for the design, construction, testing and commissioning of multi utility infrastructure.

Development Planning Phase:

During the initial planning phase of a development the service provided includes:

Assessment of site demand requirements for gas, water, electricity and site communications infrastructure.

Liaison with the relevant Utilities/ Statutory Bodies to establish availability of supply and details of any necessary system reinforcements including the requirement for any Development Impact Assessments etc and associated costs.

For gas and water infrastructure, preparation of preliminary designs and layout drawings for the site infrastructure identifying service routes, pipe sizes, operating pressures, pressure regulator installation requirements, valve and hydrant locations etc.

For electrical and site communications infrastructure, preparation of preliminary design drawings for the site infrastructure identifying service routes, electrical sub-station capacities and locations, details of HV and LV electrical network layouts, communication duct layouts including details of draw pits and road crossings.

Preparation of budget costs for the site utility infrastructure and any necessary system reinforcement.

Post Planning Phase:

Following the initial planning phase of a development the service provided includes:

For gas and water infrastructure, obtain formal design approval for adoption by the Utility companies, update drawings to reflect any changes and provide firm quotations for acceptance by the client.

For electrical and site communications infrastructure, obtain firm quotations from the Service Providers for acceptance by the client and update design drawings to incorporate any Planning Changes for issue to the Services Infrastructure Contractor/Manager.



■ TECHNICAL SUPPORT AND CONSULTANCY

Technical Support:

- Project conceptual design.
- Pipeline surveys and landowner liaison.
- Pipeline routing and adoption.
- Arrangement of pipeline wayleaves and deeds of servitude.
- Compliance with CDM Regulations.
- Preparation of a gas supply system CDM Health and Safety file including details of emergency procedures.
- Preparation of pre-tender health and safety plan.
- Preparation of construction phase health and safety plan.
- Preparation of project health and safety file.
- Hazardous area drawings and provision of SR25 documentation.
- Gas supply system and equipment fault investigation and rectification.
- Planned maintenance, functional testing and major overhaul of pressure regulator installations.
- Valve maintenance and valve records.
- Cathodic protection system monitoring and maintenance.
- Decommissioning and re-commissioning of gas supply system.
- Damage repair/replacement of sections of gas supply system.
- Preparation and updating of Gas Supply System Record drawings and Gas Supply Line Diagram schematics in AutoCAD file format.

Consultancy Services:

- Project management.
- Project design and pricing.
- Project feasibility study and pricing.
- Project financial appraisal and financial control.
- Earned value analysis.
- Construction management.
- Fuel efficiency advice.
- Tender formation and invitation to tender documentation (ITT).
- Safety management systems audit.
- System defect investigations.
- Appliance installation inspections.
- Gas installation pipe system technical and safety compliance survey and assessment.
- Gas meter regulator installation technical and safety compliance survey and assessment.
- Gas meter regulator installation hazardous area survey and assessment.
- Gas installation pipe system hazardous area survey and assessment.
- Preparation of PSSR written scheme of examination for gas supply systems within scope of regulations.
- Preparation and maintenance of a gas supply system network model for design of future system extensions and identification of any strategic reinforcement requirements.

Gas Safety Survey & Inspection:

We can provide the complete range of inspection, testing and maintenance services necessary to ensure/demonstrate the safety and integrity of constructed gas supply system assets throughout their expected useful life:

- Visual inspection of above ground external and internal gas supply system.
- Tightness testing of all sections of above ground and internal gas supply system.
- Flame Ionisation Detector leakage survey of below ground gas supply system (Subject to DSEAR Risk Assessment).

COMPLETED PROJECTS

Design & Construction:

Client	Description	Value
Tata Steel Ltd	<i>Design, installation, testing and commissioning of a new 300mm Steel gas outlet pipework infrastructure.</i>	£67K
BAA Edinburgh Airport	<i>Preparation of HSE Safety Case for Privately Owned Gas Supply Network at Edinburgh Airport.</i>	£20K
ES Pipelines	<i>Construction of 5.5km of low pressure gas mains (from 315mm to 63mm), 550 gas services and 150 gas meters to an existing housing state in Larkhall, South Lanarkshire</i>	£ 645K
Alexander Anderson, Bo`ness.	<i>Design and construction of a low pressure 250mm PE80 gas service and rotary gas meter. Supply and installation of a worker/standby gas booster and associated control panel to provide an elevated outlet pressure of 150mbar.</i>	£ 265K
NHS Highland	<i>Design and construction of 180mm PE100 Intermediate Pressure gas main, service and meter/regulator installation at Raigmore Hospital, Inverness.</i>	£ 65K
Fife Council	<i>Design and construction of 1.5km of 200mm HPPE water main, with associated isolating valves, air valves and hydrants for new John Smith Business Park, Kirkcaldy.</i>	£ 230K
Abbotshall Homes Ltd, Kirkcaldy	<i>Design and construction of 125mm, 90mm and 63mm PE water mains, including associated control equipment and individual connections for new housing development of 55 properties.</i>	£ 35K
Campion Homes Ltd, Dunfermline	<i>Design and construction of 90mm PE and 80mm CI water mains for new housing development of 45 properties, including associated control equipment and individual copper connections to properties.</i>	£75K

Consultancy:

Client	Description	Value
Parsons Brinkerhoff	<i>Technical due diligence study relating to the purchase of a Regional Gas Supply Network.</i>	£29K
West Lothian Council and Fife Council	<i>Management and resourcing of turnkey project to undertake gas supply system safety surveys in all West Lothian and Fife Council properties and the preparation of gas supply system Risk Assessments and Health & Safety Files.</i>	£110K
Atkins Global	<i>Technical due diligence study relating to the purchase of a European National Gas Supply Network.</i>	£33k
Atkins Global	<i>Technical due diligence study relating to the purchase of an Independent Gas Transportation Company.</i>	£30k
Scotland Gas Networks	<i>Management and resourcing of Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR) surveys and preparation of risk assessments for circa 1800 IP/IMP pressure regulating installations in Scotland</i>	£205K
Scotland Gas Networks	<i>IP/IMP Regulator Installation Surveys</i>	£68K

■ CLIENT BASE

Our ever expanding client base illustrates our success. Here is a selection of our customers we have provided design, construction and consultancy services to since 1996.

Local Authorities:

- Fife Council
- Stirling Council
- West Lothian Council
- Clackmannanshire Council
- Falkirk Council

Health Authorities:

- Tayside Primary Care
- Fife Primary Care
- Fife NHS Trust
- NHS Highland

Educational Establishments:

- St. Andrews University
- St. Margaret's Academy Livingston
- University of Stirling
- Dundee University

Police Establishments:

- Strathclyde Police, Glasgow
- Fife Police, Glenrothes

Large Industrial Organisations:

- Tata Steel
- Tullis Russell

Ministry of Defence:

- Rosyth Dockyard
- RAF Lossiemouth
- Beith

Developers and Builders:

- Algo Builders Blairgowrie
- GIA Properties, Glenrothes
- Champion Homes
- Abbotshall Homes
- Robertson Construction
- Hadden Construction
- Stewart Milne Construction
- Lundin Homes
- Muir Construction
- System Homes/Raith Developments
- Headon Developments

Gas Transportation Companies:

- Scotland Gas Networks
- ES Pipelines
- The Gas Transportation Company



■ ACCREDITATIONS

Gas Industry Registration Scheme (GIRS)

Gas and Utility Technology has been awarded full accreditation by Lloyds Register under the Gas Industry Registration Scheme for the following work activities – Design, Construction, Commissioning & Connections (Routine).



Gas Safe Register

MET1 - Meters ICPN1 - Pipe Installation <75mbar
TPCP1 - Test & Purge - UPI1 CMET1 - LP Diaphragm & RPD Meters
CODNCO1 - Changeover Domestic - Commercial Natural Gas.



Water Industry Registration Scheme (WIRS)

We provide a Lloyds WIRS accredited design and construction service for the installation of site water mains and services supplying housing and industrial/commercial developments.



OFGEM Approved Gas Meter Installer (OAMI)

We are registered in the following OFGEM categories:
COP/1A, COP/1B and COP/1C.



Contractors Health & Safety Assessment Scheme (CHAS)

Principle Contractor, Designer, Contractor, Health & Safety.



Constructionline

Registration with Constructionline certifies that Gas & Utility Technology has met pre-qualification requirements appropriate to public and private sector procurement.



Utility Vendors Database (UVDB)

Gas and Utility Technology are registered as a supplier on the Utility Vendors Database for Gas/Water Main & Service Pipe Laying; Pipework Fabrication and Installation; Technical and Planning Consultancy.



BS EN ISO 9001:2008

Our engineering and management policy and procedures have been assessed and registered by NQA against the provisions of BS EN ISO 9001:2008.



CORGI

Member of CORGI.



Energy Institute

Industrial Affiliate of Energy Institute.



Institute of Gas Engineers & Managers (IGEM)

Industrial Affiliate of The Institution of Gas Engineers & Managers.



■ CONTACT DETAILS

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Fife
KY6 2DA

Company Info:

Company Registration Number: SC168010
VAT Number: 682 7699 71

STAFF DETAILS

Director:

Ian Mowbray B.Sc.(Hons), M.Phil., C.Eng., M.I.Mech.E., M.I.G.E.M.
*Director – Gas and Water Supply System Design,
Construction and Consultancy*

Professional Engineering Staff:

Roger Ferguson I.Eng., M.I.G.E.M.
Manager - Technical Support and Consultancy

Alan Shaw EngTech., M.I.G.E.M.
Design Engineer and Site Manager – Gas Infrastructure

Godfrey Blagden T.M.I.C.E Fellow Institute Water
Design Engineer - Water Infrastructure

David Matson
Design Engineer and Site Manager – Water Infrastructure

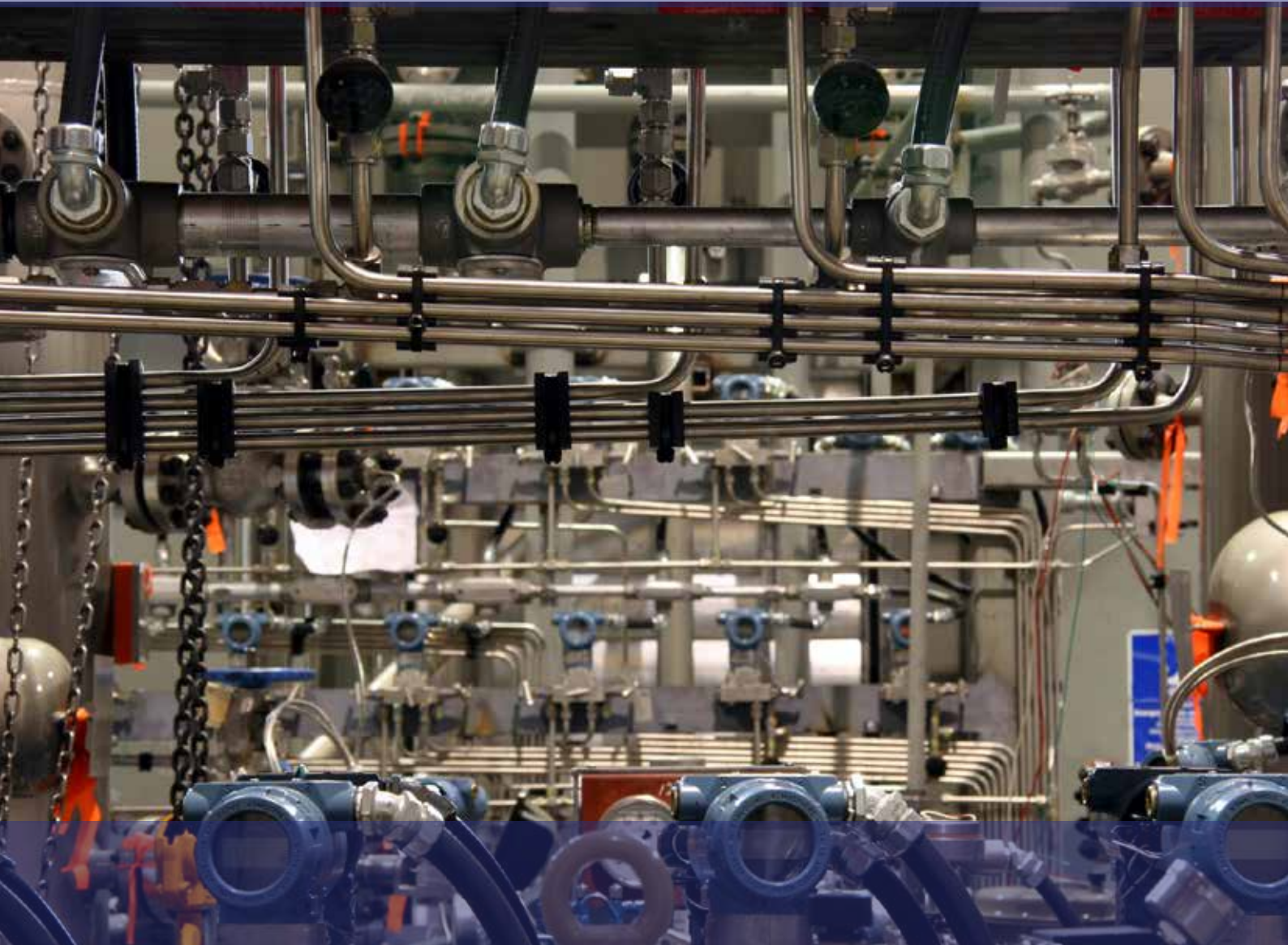
Administration Staff:

Shona Allan
Office Administration Manager





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