

Technology Services



TE TECH
PROCESS SOLUTIONS®



Software System Integration

Te-Tech develop and integrate process critical systems for a range of industrial processes, bringing together specialist hardware, software and world-class engineering to provide process automation solutions.

Our services are provided nationally and globally, utilising our highly skilled and experienced Technology Services team. We offer complete V-model system development from design and delivery through to support and maintenance.

Our solutions are recognised for their innovation, reliability and quality – helping our clients meet their objectives for process control.

We are experienced in the design, development and supply of the software for all major PLC, HMI and SCADA suppliers including Rockwell, Siemens, Mitsubishi and Wonderware and can deploy solutions across Ethernet/IP, Profibus, Profinet, DF1, DH+, Modbus TCP/IP, Modbus RTU.

We carry out full design, development, testing and verification of the clients applications using our in-house experience and test facilities from URS through FDS and into FAT and SAT testing.

We take a truly independent approach and have established supply chain relationships with all major OEM's across the industry sectors we serve allowing us to implement the most efficient and cost beneficial solution for our clients. We are BSI 9001 accredited and all Software System Integration work is controlled and monitored under a quality plan.

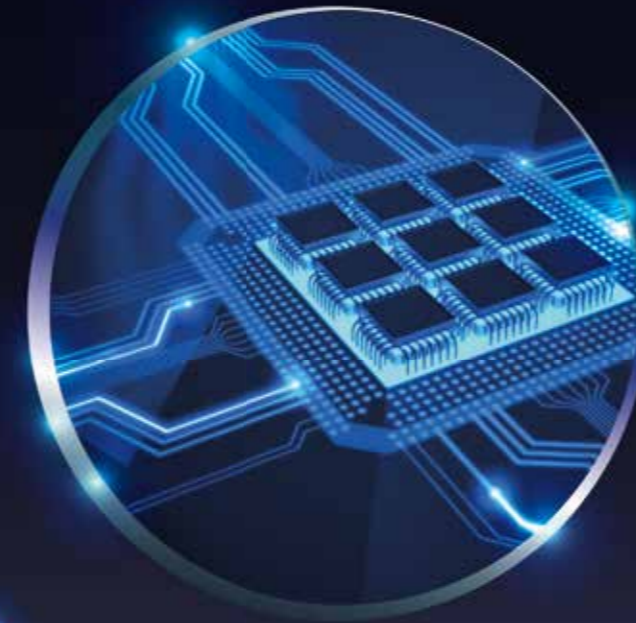
- In-house design and supply of software for all PLC, HMI and SCADA
- Development and integration of process-critical systems
- Deployment of industrial automation networks including Ethernet/IP, Profibus, Profinet, DF1, DH+, Modbus TCP/IP, Modbus RTU

Analysis and Support

In a world driven by data, we help clients make clear decisions. Utilising data and analysis we ensure clients can efficiently manage their assets, reducing risk, saving cost and increasing performance. Control system failures lead to lack of asset control causing environmental or process issues.

Our experienced services team can help clients, optimise their asset enterprise and utilise their data to their advantage, we provide:

- Control System Review and drawing updates
- Data acquisition and analysis
- System obsolescence analysis and risk review
- System code review and refinement
- Failure point analysis and prevention
- ICA system repair and maintenance
 - Replacement PLC's
 - New SCADA system
 - New outstation
 - Fault finding and end to end system testing



Operational Technology

Asset Optimisation

Driven by data, our optimisation capability helps clients maximise the performance of their assets. Proprietary and bespoke solutions for asset optimisation provide an intelligent platform to support real time control and remote decision making. This solution reduces operational costs, cuts carbon, optimises chemical consumption, enhances reliability and maintains performance targets such as discharge consent compliance.

Our Asset Optimisation Solutions provide:

- Development and implementation of bespoke Real Time Control Solutions
- Energy, chemical and carbon savings
- Predictive maintenance systems to enhance performance of asset intensive organisations
- Enhanced optimisation provided by in situ process intelligence upgrades

Virtual Reality

Our in-house software team design virtual reality systems and visualisation tools to help our clients visualise and enhance designs, simulating operation in a safe, risk free environment, consisting of:

- Virtual model development of package, modular and larger treatment plants
- Access, Lifting and Maintenance simulation and clash detection
- Real time simulation through SCADA and PLC integration
- Augmented layering capabilities
- Interactive audio-visual intelligent headset

Obsolescence Management

Operational Technology is a fast paced, ever-changing world – yet as much as **40% of critical asset failures** are related to faults with Control Systems. Our Obsolescence Management ensure seamless upgrades to more intelligent market-leading technology integrated into existing infrastructure, minimising implementation time and reducing costs associated with downtime. We are vendor independent and ideally positioned to provide impartial advice and project management expertise for the replacement of deteriorating or obsolescent control and automation equipment, providing:

- End to end data collection, control and optimisation solutions
- Specialist OT front end design and telemetry modifications to improve asset performance
- Design, manufacture and installation of ICA Panels, software equipment, communication networks and field instrumentation
- Network monitoring and diagnostics
- Turnkey delivery

Telemetry

We are able to deploy a wide range of telemetry RTUs, with expertise of hardware such as Schneider Talus T4e, Seprol S2000, extending into support of legacy telemetry systems such as Serck PX24, PS21, PS5 and Dynamic Logix.

This ranges from:

- Initial hardware selection and configuration to hardware installation
- Integration into local site networks
- Top end point/mimic configuration and animation, including data logging, trending and alarm logging.



About Us

Te-Tech Process Solutions is a provider of advanced process technologies and conventional products for industrial, municipal and commercial clients across a number of market sectors, including water and wastewater treatment, oil & gas, nuclear, energy, marine, defence and food & beverage.

Our products cater for a range of client needs from standardised products to engineered solutions designed to meet the exacting needs of the client's process.

Te-Tech's in-house capability includes process, mechanical and electrical design, off-site manufacture and assembly, MCC and Control Panel Manufacture and System Integration.

Our extended services include digital engineering, service and maintenance, operational support and real time control.

Our organisation is founded upon 4 key areas of expertise.

- Water and Wastewater Treatment
- Automation Control and Technology
- Digital Engineering
- Offsite Manufacturing and Assembly

Advanced technology and innovation are at the core of our business enabling us to provide high quality, efficient solutions to our clients.

Technology Services

Te-Tech Process Solutions have the capability and experience to provide a broad range of control system and technical support services throughout the asset lifecycle, including evaluation and diagnostics, system design, implementation, commissioning and ongoing operational support and asset optimisation. We have extensive experience in the design and supply of software for all major PLC, HMI and SCADA suppliers.

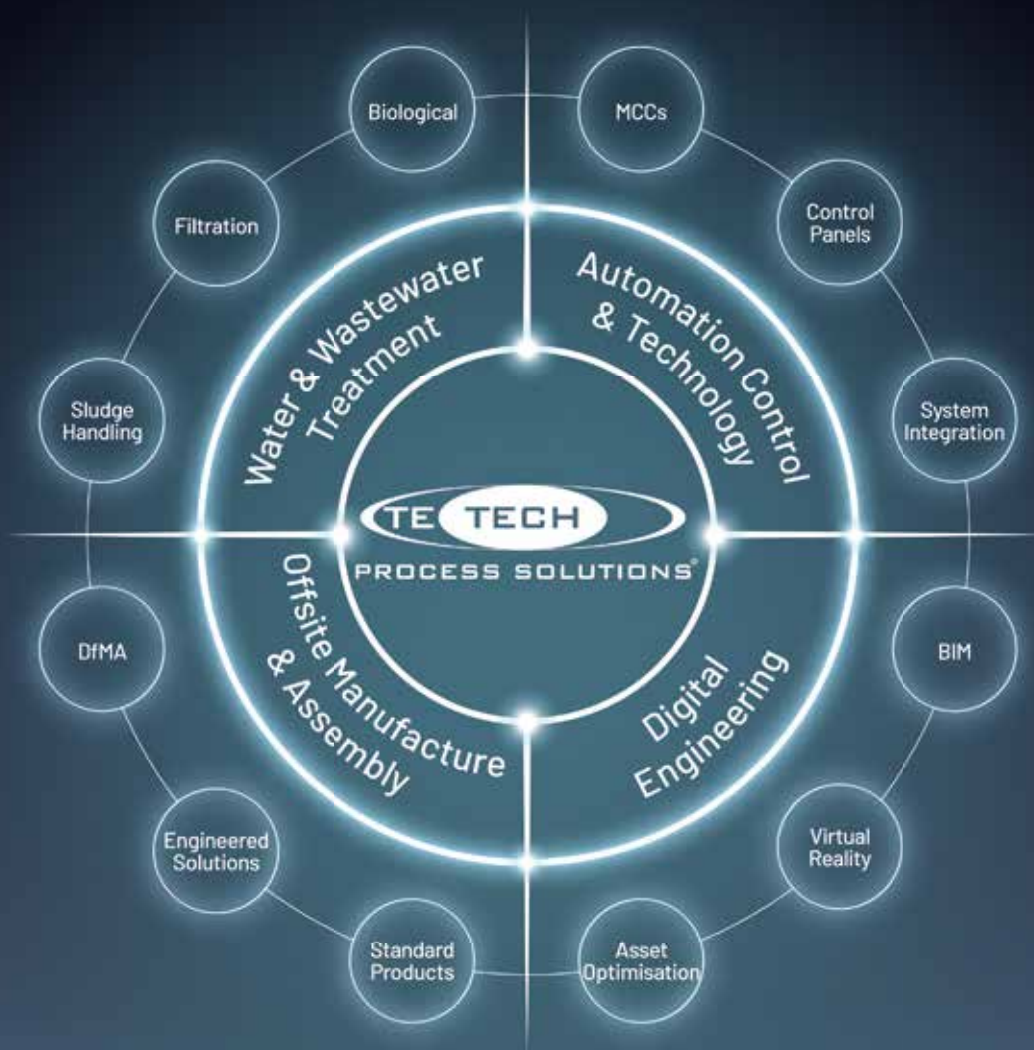
We offer a complete service to national and global clients across all sectors including:

- Process and Water
- Marine
- Nuclear
- Oil and Gas
- Energy
- Defence and Building Services
- Manufacturing

We have established relationships with many clients across our sectors including:

- Southern Water
- Portsmouth Water
- United Utilities
- Thames Water
- Galliford Try
- Severn Trent
- National Grid
- Mott Macdonald Bentley
- Wärtsilä Marine
- Ministry of Defence





Contact us

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