

## Process Instrumentation & Controls

Dependable Systems Designed in a Cost-Competitive Environment

The Automation Engineers at Foster Wheeler Biokinetics have a wide range of instrumentation and controls design and engineering experience in the biotechnology, pharmaceutical, and chemical industries.



Our engineers define the high-level controls and instrumentation requirements during the initial phases of a project. They develop detailed documentation in the Design and Construction phases, and follow the project through Start-Up and Commissioning.

Generation of Controls Deliverables can include Automation Philosophy, User Requirements Specification, Control System Architecture, and Functional Requirements Specifications. We ensure compliance with the applicable automation and controls codes and standards governing the industry such as GAMP 4, S88, and 21CFR Part 11 requirements as they apply to the project.

We maintain a very close working relationship with a number of system integration firms who have experience in a variety of PLC and DCS systems. Our management of control system development and review of software and hardware design documentation generated by systems integrators includes FAT/SAT testing and IOQ support.

Field Instrumentation is also a critical component of Automation. Our engineers have expertise in the requirements for monitoring and controlling devices for the biotechnology, pharmaceutical, and chemical

industries. We specify appropriate field instrumentation, perform relief device scenario evaluations and calculations in accordance with applicable standards, and also provide procurement support and vendor submittal review.

Our engineers also provide excellent site engineering and management support. Their experience with customer representatives, construction, testing and validation personnel is often called upon to facilitate these aspects of the project.

We are experienced with the following systems:

- Allen Bradley PLCs, HMIs, and Rockwell software including RSLogix, PanelBuilder, and RSView32
- Emerson DeltaV DCS hardware and software, including control system modifications, OIT configuration, system maintenance, networking, and troubleshooting
- Siemens Simatic PLCs, HMIs and programming software
- Telemecanique Modicon PLCs
- GE Fanuc PLCs, HMIs and programming software



For more information, please contact FW Biokinetics at 215.656.2500, or Email us at [info@fwbiok.com](mailto:info@fwbiok.com), or visit our website at [www.fwbiok.com](http://www.fwbiok.com).