Automation and Control
Turn-Key, Vendor-Independent Single Source Solutions
Wood Group Mustang is a leading provider of design, engineering, and integration of control, automation and information systems. We provide a vendor-independent approach, assuring our clients the most appropriate hardware and software for their project’s success. Our project experience extends from front-end design to commissioning ranging from small upgrades to Main Automation Contractor/ Main Instrument Vendor programs. We emphasize ‘fit-for-purpose’ solutions to the refining, chemical, upstream oil & gas, power, and other process industries.

Our employees are experienced in:

- Project management and execution
- Conceptual design and front-end loading
- Control system evaluations
- Functional safety analysis (LOPA and SIL)
- Fieldbus and conventional device design
- Distributed Control Systems (DCS)
- Programmable Logic Controller (PLC)
- Basic Process Control System (BPCS)
- Safety Instrumented Systems (SIS)
- SCADA and PLC systems
- Networks
- Abnormal condition management
- Advanced Process Control (APC)
- Operator training and process simulators
- Real-Time process data historians
- Environmental consulting
- Environmental data management (EICEMS)
- Manufacturing Execution Systems (MES)
- Yield accounting and production reporting
- Batch and recipe management
- Plant floor/ERP systems integration
- Operator effectiveness studies
- Asset Management Systems (AMS)
- RIE building design and construction
- Cyber Security
- Human Machine Interface (HMI) Design
Our Unique Strengths

Wood Group Mustang delivers projects with improved value at competitive cost, bringing our strengths to every challenge. Among them:

- Full-service capabilities
- Vendor-Independent approach
- ‘Fit-for-purpose’ solutions
- Long-term client alliances
- Multi-discipline resources within Wood Group Mustang
- Large in-house secure staging facilities
- Structured approach to project management with proven tools and systems
- Turn-key capability for automation projects

Main Automation Contractor (MAC) Projects

Wood Group Mustang is uniquely qualified to act as the Main Automation Contractor (MAC) for large grassroots/greenfield projects involving multiple contractors located throughout the world. Our inherent understanding of the contractor’s work flow enables us to successfully manage the complex interfaces between the contractor’s departments and the MAC team.

In the MAC role, we act as an extension of your team to effectively manage the cost and schedule of the MAC project and provide a consistent execution model.

As a MAC, we offer the following advantages:

- Vendor independence allows us to engage prior to technology selection
- Broader multi-vendor experience base enhances subsystem integration
- Smart Plant Instrumentation (SPI) administration and hosting provides consistency between projects and faster deployment of Asset Management Solutions
- Larger scope of supply capability vs. technology provider
- Contractor and third party interface experience reduces overall system integration risk
RIE and Panels

Wood Group Mustang provides Remote Instrument Enclosures (RIE) and panels, allowing us to be the single-point supplier for all your automation projects. The RIEs can be fabricated, integrated, and tested in our controlled and secure environment by highly skilled craftsmen before being shipped to the client’s facility. This method minimizes delays, safety hazards, permit issues, and cost overruns.

Addressing Safety Compliance

We participate fully with our clients in achieving compliance to the applicable functional standards. We work with our client’s Process Safety Management (PSM) groups and lead or participate in all aspects of the safety life cycle, including, but not limited to:

- Safety Functional Management Audits
- HAZOP/LOPA participation
- System reliability/availability studies
- Audit of design procedures and techniques
- Reliability studies for personnel protection, equipment protection, environmental impact, and loss of production

Specific Industry Solutions

We have the industry-specific expertise to provide you with innovative strategies and solutions for your complex challenges.

We provide solutions to a broad range of industries including:
- Oil & Gas
- Refining
- Chemicals and polymers
- Manufacturing
- Power
- Life sciences
- Pulp and paper
- Mining
- Fertilizer

About Wood Group Mustang

Wood Group Mustang has a worldwide reputation for quality engineering design, procurement, project management, construction management, and inspection services. Our professionals are fully backed by a hands-on management team, solid support staff, and leading-edge systems. All are dedicated to completing projects on time, within budget, and with no surprises.

About ISI Mustang

ISI Mustang is a provider of automation and control engineering and consulting services to the oil and gas, power, and pipeline industries in Latin America. With offices in Mexico, Colombia, Argentina, Peru, Chile and Bolivia, ISI Mustang is ideally positioned to provide turnkey services for clients in this region.