

Automation and Control

Your experienced partner in providing
vendor-independent, integrated solutions

WOOD GROUP

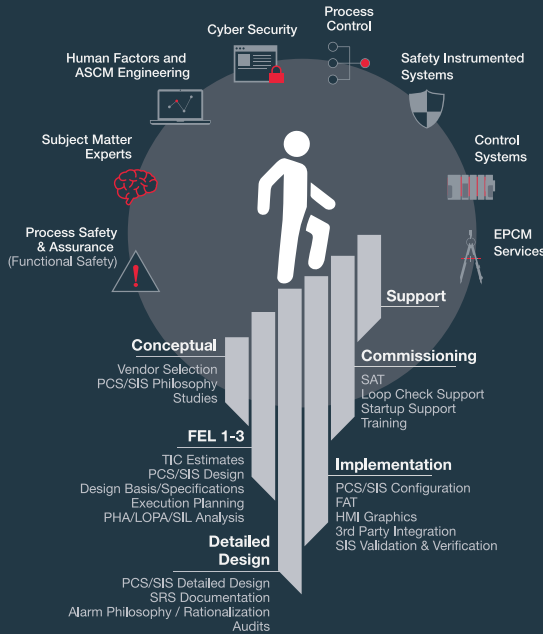


Integrated and independent,
an experienced partner for full
service solutions.



Quick Facts

- Vendor Independent
- Global Services Provider
- Process & Control Expertise
- Two time winner integrator of the year
- Main Automation Contractor Execution
- Brownfield/Revamp Execution Expertise
- >1,000 Automation Personnel Worldwide



Intelligent Operations

- APC
- MES
- Environmental
- Simulators
- Dashboards

Engineering Capabilities

- Electrical
- Instrumentation
- Procurement
- Piping
- Civil/Structural
- Logistics
- RIE Integration
- Construction Management

Solutions that add value

Wood Group is different from other automation and control solutions providers. In addition to being a leading provider of design, engineering and integration services, we are vendor-independent. Our extensive industry and systems experience allows us to assure customers that they have the most appropriate software and hardware for their project's success. With our robust project management systems, precision tools and the global support of Wood Group, we can handle any project, large or small, as your turn-key source from concept through commissioning.

Our life-cycle automation and control solutions have been proven in a broad range of industries:

- Oil and gas
- Chemical/petrochemical
- Manufacturing
- Refining
- Pulp and paper
- Power generation
- Mining
- Pipelines
- Water and utilities
- Renewables
- Pharmaceuticals
- Life sciences

Safety is paramount

Our automation and control capabilities bring innovative solutions to benefit our clients and ensure safety in execution. We work closely with your Process Safety Management (PSM) requirements, delivering functional safety audits, HAZOPS/LOPA, system reliability studies, and design audits.

Recognized systems integration expertise

Wood Group is a repeat winner of the prestigious System Integrator of the Year award, a Control System Magazine Hall of Fame member, and a globally recognized integration provider. Our complete skill set, technical expertise and customer satisfaction have consistently made us the leader in both new systems implementation and legacy upgrades. We combine powerful technical teams with vendor-independence to create cost effective and lasting solutions.

Process safety and assurance

Our process safety and assurance capabilities are founded on extensive experience designing, developing and deploying process control and safety systems for a global customer base. We can deliver solutions for new facilities and upgrade existing systems. Our strength lies in converting high level functional safety philosophy into a well-defined scope of work while breaking down the silos to effectively manage risk.

Human factors and Abnormal Condition Management (ACM)

Wood Group has a team of automation professionals knowledgeable in Human Machine Interface (HMI) design and ACM principles that align with the International Society of Automation (ISA) and industry best practices. Our team follows a proven work process for HMI design and alarm management from concept through commissioning that ensures both quality and repeatability.

Control systems

We are the largest vendor independent systems integrator in the world. This means we are capable of working on control systems of any size and complexity. Whether it is a large Distributed Control System (DCS) or a small Programmable Logic Controller (PLC), our automation professionals draw from a broad experience base and can assist during any stage of the project life cycle to assist in platform selection, design and estimation or commissioning.

Safety Instrumented Systems (SIS)

Our experienced team is capable of working on any safety system ensuring the quality and reliability our customers have come to expect. Independent validation teams ensure rigor and automated testing tools increase efficiency while adhering to industry best practices.

Subject matter expertise

Wood Group is able to provide exceptional services in many areas within automation. This is made possible by our Subject Matter Experts (SMEs) embedded throughout the automation service line. They are charged with staying up to date with industry best practices and technical innovation. We are proud to have members recognized in the industry including a Fellow and voting members of the ISA.



Assisting your operations with intelligence

Wood Group has developed a powerful suite of software and systems solutions designed to streamline every facet of your operations – from personnel training to process execution and management. We combine automated technology and innovative software with our experienced personnel to add value and reliability to our customers' projects.

Training / Learning

Simulation, training and learning are fully supported by our robust and dedicated software product suite. *VP Link™* is a high end simulation application that uses hybrid modeling to dynamically represent chemical processes from simple to complex. *ProLearn™* software is designed to deliver e-learning solutions for science and engineering disciplines. *ProDyn™* provides end-to-end training competency management for cloud-based or OTS software

Performance monitoring

Our proprietary simulation packages, including *ProRPM™*, provide performance monitoring systems that integrate disparate plant data sources to ensure optimized operations.

Environmental management

Specialized tools, like Wood Group's *ENVision™*, modernize emissions data collection, aggregation and reporting for operations with large daily calculations. Proven savings have added value to the bottom line of upstream and downstream oil and gas and electric power generation clients.

Advanced Process Control (APC)

With our industry-leading APC skills, Wood Group uses the latest multivariable controllers designed to improve production processes. We apply knowledge of processes and control technology to increase productivity, profitability and consistency.

Manufacturing Execution Systems (MES)

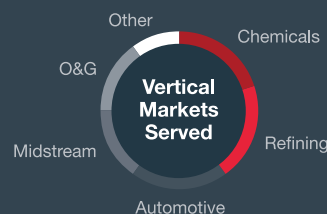
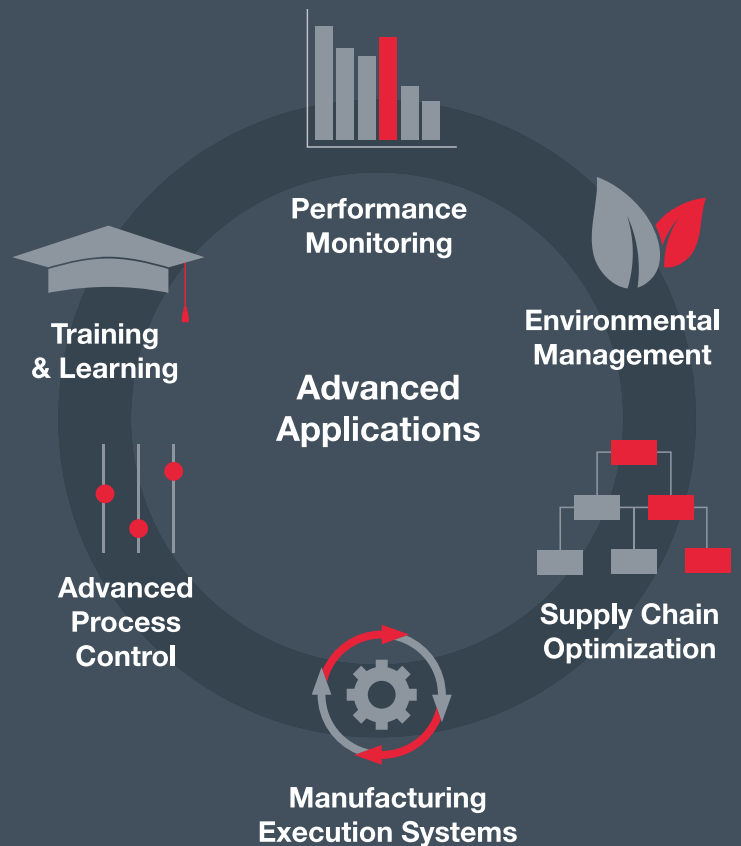
Our expertise helps deliver complete life cycle solutions for discrete and continuous manufacturing industries of any size. Our goals are to reduce costs and minimize project schedule.

Supply chain optimization

Our proprietary software, including *ProPlan™* and *ProSched™*, optimize manufacturing supply chains through next generation production planning and scheduling. These user-friendly tools, implemented by Wood Group engineers, help operators create realistic schedules for asset optimization.

Process solutions / Flow assurance

Our global process solutions team delivers a comprehensive engineering analysis in flow assurance, dynamic process simulation and computational fluid dynamics using *Virtuosio®*, our industry proven proprietary software, for wells, pipelines and upstream processing facilities.



Technology Platforms

Honeywell OS/soft Emerson
Yokogawa AspenTech
GE/Other Rockwell

Other Services

Physical Security & Telecoms Engineering
Intergraph INtools Support, SmartPlant, CadWorx, 3D
Functional Safety Consulting & Delivery
Cybersecurity Consulting
Simulation & Optimization Studies

Project Execution
in man-hours

<40

Smallest Projects

>700,000

Largest Projects Complete

15,000

Average Projects



13

Countries

26

Offices

>1,000

Dedicated Automation Personnel

Largest

Independent Systems Integrator

Effective management of your project

Planning a large grassroots/greenfield project requiring multiple contractors? Wood Group has both the experience and the proven capabilities to manage your project and all of its complexities. As a Main Automation Contractor (MAC), we provide guidance and oversight to safely and successfully complete your project within budget and on schedule. We are proud to offer:

- Independent vendor selection and technology implementation
- Smooth integration of team members across all disciplines
- Global resources to facilitate execution interfaces
- Proven project management systems to assure cost-effective results

Remote instrument enclosures and panels

Another facet to the broad Wood Group automation and control offering is our Remote Instrument Enclosure (RIE) expertise. Modular and fit-for-purpose, the RIE is constructed for housing pre-configured control and monitoring equipment at the process facility. These versatile units are fabricated, integrated and staged under our supervision. The RIE is easy to hook up, minimizing time, improving safety and averting cost overruns.



Global Locations

United States	Norway
Argentina	Peru
Australia	Saudi Arabia
Canada	Slovakia
Chile	United Arab Emirates
India	United Kingdom
Mexico	

