



SHERARD A. MCINTOSH



Mr. McIntosh is a Principal with Long International and has 23 years of experience in the engineering and construction (E&C) industry working for a major licensor of refining technology and E&C contractor. Mr. McIntosh has served as a leader in diverse roles spanning Technology Licensing, Research & Development, Engineering, Project Management, Organizational Management, and Business Development. His experience covers the entire project life cycle from conceptual design, technology package, front-end engineering design (FEED), detailed engineering, construction, commissioning, and start-up services. He has developed strategic, technical, and commercial plans for major oil and gas technology projects including biofuels, ammonia plants, refineries, and petrochemical complexes. Mr. McIntosh served as Director of KBR's Mexico operations, headquartered in Monterrey, Mexico, and has significant international experience working

in countries such as Argentina, Australia, Bahrain, Brazil, Colombia, France, Hungary, Israel, Saudi Arabia, South Africa, Spain, Sweden, Trinidad and Tobago, the United Kingdom, the United States, and Venezuela.

EDUCATION

B.S. (Honors) Chemical Engineering, University of the West Indies, 1996

LANGUAGES

English, Spanish

TECHNICAL EXPERIENCE

Representative U.S. and international technical experience includes:

- Extensive refinery process design experience especially in the design of Fluidized Catalytic Cracking (FCC) units and Resid FCC (RFCC) units, including specification and selection of catalysts and catalyst handling systems, utilities and offsites, process piping, flue gas systems, waste heat boilers, feedstock handling systems, process filters, refractory selection and installation, catalyst coolers, cyclone design, reactor design, regenerator design, expander/compressor trains, hydraulic design for fluid transfer, overpressure protection philosophy and design of pressure relief systems, development of process operating philosophies and operating manuals
- Oversaw the process design work for a novel biomass-to-renewable fuel facility located in North America for a confidential client. The scope of the project was EPC based on the client's proprietary technology. The facility was designed to convert wood biomass to biofuels such as gasoline and diesel blendstocks.
- In-depth experience with licensed technology including serving as Program Manager for a leading Licensor's Technology Business Unit (TBU)
- Development and maintenance of corporate technical standards and procedures
- Application of design standards and procedures to the execution of engineering works
- Extensive project management execution experience and proven ability to lead projects to completion on budget and ahead of schedule, and strong leadership guiding high-performing teams
- Management of change and change order negotiation
- Specialized Latin American expertise working with clients such as Pemex, PDVSA, Ecopetrol, Repsol YPF, and Petrobras in Mexico, Colombia, Venezuela, and Argentina