

Quasar ScienceTech Consulting Areas

Quasar ScienceTech provides multidisciplinary science and technology consulting in the following areas:

Natural and Applied Sciences (e.g., Chemistry, Materials Science, Physics, and Environmental Science)
R&D, Program Development, and Management of new product and technology developments
Technology Assessments and Technical Due-Diligence ((including IP/patent assessment)
Business and Project Development
Defining the basis of the problem to find an appropriate/optimal solution
Innovation
Sustainability
Climate Change Mitigation
Circular Economy
Clean / Renewable Energy and Technologies
Waste-to-Energy technologies (Steam Reformation, Gasification, Pyrolysis, and Anaerobic Digestion)
Scrubbing and Cleaning systems (e.g., gas, wastewater, solid residue)
Feedstock evaluation and preparation (biomass, municipal solid waste, industrial waste, sewage sludge, used tires, etc.)
Syngas Chemistry
Product analysis and testing methodology development
Syngas Applications (electric power generation, hydrogen, bio-fuel, and chemical production)
“Green” Hydrogen production
Gas-to-Liquide technologies (e.g., Fischer - Tropsch process)
Synthetic liquid renewable fuel production chemistry
Waste Heat Utilization
Energy Efficiency
Product Analyses
Mass & Energy Balance
Process Modeling & Optimization
Process Flow Analysis
Energy Storage System
Clean Energy Production
Solar Power
Wind Power
Advanced Materials developments (metals, ceramics, semiconductors, superconductors, single crystals, catalysts, and films)
Advanced Materials Applications (solar energy technology, ceramic engine components, cutting tool inserts, single crystals, materials processing, and electronics)
Materials selection for reactors and cleaning system

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