



### BRIAN DUFFY

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# Strategic Bioengineering Services

SPECIALIZED SUPPORT FOR BIOTECH, PHARMA & NOVEL THERAPEUTICS MANUFACTURING SITES AND PROJECTS

## Owner’s Project Management for Capital Project Design and Execution

Leveraging years of experience on both the owner and AE firm sides to ensure clearly identified project goals and aspirations, team alignment and organization, and successful project execution in all phases:

- » Greenfield/Brownfield
- » Manufacturing Cleanroom Environments
- » Upstream, Downstream, Fill/Finish
- » Novel Therapeutics, MABs, Vaccines
- » Design/Construction/Start-up/CQV
- » Process Debugging
- » Shutdown Planning

## Project Process SME

Process Engineering support for capital project leadership, process optimization efforts, and manufacturing readiness evaluations.

## Master Planning

### BIOTECH & PHARMA SITES

- » Assessing Production Site/Network Potential: Evaluating capabilities in line with therapeutic demands.
- » Defining Current Risks and Challenges
- » 5-Year Plan for Progress:
- » Roadmap for facility expansion, technology upgrades, and risk mitigation.
- » Strategy for Annual Assessment: Periodic audits and continuous improvement

### ENVIRONMENTAL SUSTAINABILITY

- » Identifying Sustainable Goals: Setting objectives in carbon emissions and environmental initiatives.
- » Determining Green Technologies and Systems: Selection of eco-conscious systems and waste reduction techniques.
- » Phasing Strategy and ROI: Balancing environmental goals with profitability.
- » Performing Life Cycle Assessment (LCA)
- » LEED & BREEM Support



## Strategic Bioengineering Services Project Execution Process

