Role definition

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| Job title: | Senior Engineer – Process |
| Reports to: | Head of Process |
| Direct reports: | None |
| Business unit: | Baker Hicks | Location: | All Locations |

Summary

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| To provide process engineering input required in the execution of a project/proposal/study |

Key objectives

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| To provide a source of technical expertise in the wider process arena, particularly safety. |

Principal responsibilities and accountabilities

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| * To undertaken project work according to programme and within budgeted man hours
* To complete the Process Design, either: working independently, as the Process lead steering a team or as a team member (depending on project requirement)
* Carry out process design work, including:-
	+ Design concept and layout development,
	+ Process descriptions
	+ Basis of Design
	+ Preparation of material balances
	+ Process & Business modelling
	+ Preparation of process flow diagrams & piping and instrumentation diagrams,
	+ Hazardous Area assessment,
	+ Preparation of equipment list and process equipment data sheets/specifications,
	+ Fluids list and materials selection,
	+ GMP review,
	+ Process hazard studies (inc. HAZOP) and design safety reviews,
	+ LOPA/SIL assessment
	+ Detail process design calculation,
	+ Pressure relief design
	+ Utilities schedules, utilities flow diagrams and line sizing,
	+ Preparation of validation documentation.
	+ Obtaining quotations for equipment
	+ Technical Bid Analysis of equipment quotations
	+ Package and vendor management including review of vendor documentation
	+ Utility system specification, design, and capacity evaluation
	+ Assist in plant layout development
* Liason with clients including reporting and attending client-facing meetings
* Site visits including for surveys (P&ID walk-downs and tender appraisal) and investigation work (process optimisation).
* To check and approve deliverables by the Process Engineers
* Checking of piping design documents, including checking isometrics and layout drawings
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Person specification

Qualifications and training

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| **Essential**: Minimum 5 years relevant experience in industry. Process engineering design in  contracting environment. Process engineering design in biotechnology / pharmaceutical / nuclear industry or related projects. PC literate. Chartered Member of IChemE**Desirable:** Operating experience in pharmaceutical, biotechnology, batch fine chemical or nuclear industry. Work experience in related areas - e.g. development, feasibility, trouble shooting, operations. Experience in Environmental projects, HAZOP study leadership, Risk Assessment and Hazard Analysis. |

Technical skills and experience

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| * Ability to communicate at all levels (internal and external)
* Confident and articulate
* Problem solving and creativity
* Computer literate
* High degree of self-motivation and ability to motivate others
* Ability to work under pressure and with minimum supervision
* Time management
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