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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| NAME | DATE |
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