

## Design Engineer - Mechanical

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Position title	<i>Design Engineer - Mechanical</i>
Location	<i>Flotech Limited - Auckland</i>
Reports to	<i>Engineering Manager</i>
Date	<i>31<sup>st</sup> October 2004</i>

### Competencies:

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- Mechanical engineering qualification with proven specialisation in the field of pressure vessel design and plant layout arrangement incl piping arrangements.
- Ability to produce innovative designs using sound engineering principles.
- Strong computer skills, ACAD, SolidWorks, MS Office.
- Good written and verbal communications skills.
- Ability to plan workload and meet deadlines.

### Strategic:

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- Production of elegant, innovative designs that enhance Flotech's technical leadership.

### Key outcomes:

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- Produce engineering drawings using AutoCAD or Solidworks, suitable for third party design verification, manufacturing and client requirements.
- Provide engineering and design calculations to recognised pressure vessel codes (ASMEVIII, PD5500, AS1210 etc) to support mechanical and process designs.
- Performs varied design engineering assignments requiring a good working familiarity with pressure vessel codes and general familiarity with structural engineering design.
- Designs for compliance with pressure vessel codes, statutory requirements, contract specifications and soundness of design.
- Has knowledge of the reciprocal effects of design outputs on other related engineering fields.
- Identifies, analyses and generates appropriate solutions to engineering design problems.
- Assists other engineers to creatively problem solve.
- Reviews the work of other design engineers for technical accuracy, completeness and adherence to contract documents and statutory requirements.
- Provides technical advice and guidance to others.
- Participates in planning to achieve contract and delivery deadlines.
- Refers difficult or complex matters or decisions to senior managers.

### Quality, Health and Safety:

- Fulfils responsibilities of position as specified by the Flotech Quality Management System.
- Adheres to the Health and Safety requirements as defined in the Health and Safety Manual

### Key Performance Indicators:

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- Accurate and effective designs. – Right first time.
- Good engineering design, shown by minimal rework requirements.