



ABN: 59 087 445 654

Position Description

Position Title:	Mechanical Engineer
Position Type:	1-2 year Full-time Contract
Award & Classification:	Manufacturing & Associated Industries & Occupations Award 2010 – C2 Professional Employees Award – Professional Level 4
Location:	de Bruin Engineering Pty Ltd, 255 – 261 Commercial Street West, Mount Gambier SA 5290
Supervisor/Manager:	Engineering Manager
Position last updated:	JUNE 2020
Status:	UNDER RECRUITMENT

MAIN DUTIES/RESPONSIBILITIES

Mechanical engineers research, design, develop, build, and test mechanical and thermal devices, including tools, engines, and machines.

In our work environment, this role will be required to work collaboratively with the Engineering Manager while striving for continuous improvement in product, safety and quality. The incumbent will be skilled in computer technology and hands-on mechanical engineering skills equally and extremely well versed on the product developed and the market it services whilst understanding consumer requirements and limitations.

Common Tasks

Operating within the guidelines of the de Bruin Group policies and procedures, relevant Australian Standards, quality, environmental and WHS legislative requirements:

- Research, evaluate and develop design of agricultural machinery, integrated components and tools based on current engineering principles and practices.
- Design mechanical components using SolidWorks 3D engineering modelling and design software.
- Assess in-field performance and operational reports of agricultural machinery with a view to improve product durability, effectiveness, usability and efficiency.
- Design changes to improve product lines, and retrofit changes into previous models.
- Scope and develop project plans.
- Estimate project costings and task completion times.
- Constructively analyse and critique designs, submit designs for peer review.

- Create and finalise designs to meet project requirements.
- Present project plans and designs to colleagues and managers.
- Create accurate project costings and Bill of Materials.

While performing the duties of this role, the employee may be required to travel and work at sites other than the regular place of employment. Such travel can include staying away from home and / or working through weekends.

The scope of this role may include travel within regional Australia, and may include international travel.

SKILLS & EXPERIENCE

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Qualifications

- Mechanical Engineering Degree.
- National White Card.

Experience

- At least five (5) years previous experience in a similar role/industry.
- SolidWorks skills essential.
- Applied mechanical engineering design experience.
- Demonstrable delivery of complex projects.
- Previous employment involving safety and quality assurance programmes.
- Practical experience within agricultural equipment and combine harvesters would be highly advantageous.

Skills & Abilities

- Identify customer requirements and translate into work requirements.
- Identify technical requirements and translate into quality plans and special instructions.
- Ability to ensure all facets of design control are met.
- Ability to work under pressure within tight time scales.
- Ensure products are designed safely, are reliable and innovative.
- Enjoy technical activities and have an interest in machinery.
- Able to work accurately applying manual, technical and practical skills.
- Able to trouble shoot and solve problems
- Strong computer skills in Microsoft Office applications in particular Word and Excel, including good report writing abilities.
- Able to work well within a team environment.
- Self-starters and able to work unsupervised.
- Agreeable to reasonable overtime.
- Patient and courteous.
- Organised and able to meet deadlines.
- Physically fit with the strength to handle materials, tools and machines.
- Apply sound WHS knowledge and practices.
- Willing to comply with regulatory and de Bruin Group policies and procedures

Information Technology:

Computer literate - proficient in the use of Microsoft Office and design packages such as AutoCAD and SolidWorks.

Analytical:

Collects and researches data. Uses intuition and experience to complement data. Designs work flows and procedures.

Mathematical:

Ability to calculate and interpret detailed and complex mathematical information. Ability to calculate figures and amounts such as proportions, percentages, area, circumference, and volume. Ability to apply concepts of algebra and engineering based calculations and formulas.

Language:

Ability to communicate clearly and listen attentively. Ability to read, analyse, and interpret advanced business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public. Speak clearly and persuasively in positive or negative situations. Listens and gets clarification. Demonstrates group presentation skills. Participates in meetings.

Reasoning ability:

Ability to solve complex problems and deal with a variety of concrete variables in situations where only limited standardisation exists. Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form. Develops alternative solutions. Works well in group problem solving situations. Uses reason even when dealing with emotional topics.

Strategic thinking:

Develops strategies to achieve organisational goals. Understands organisations strengths and weaknesses. Analyses market and competition. Identifies external threats and opportunities. Adapts strategy to changing conditions.

Planning / organisation:

Prioritizes and plans work activities. Uses time efficiently. Plans for additional resources. Sets goals and objectives. Organises or schedules other people and their tasks. Develops realistic action plans whilst remaining adaptable and willing to change.

Initiative:

Volunteers readily. Undertakes self-development activities. Seeks increased responsibilities. Takes independent actions and calculated risks. Looks for and takes advantage of opportunities. Asks for and offers help when needed.

PERFORMANCE GOALS

- Ensure all Engineering work is delivered to relevant industry standards and in a timely manner and to budget.
- Support the continual improvement and production efficiency gains through design outcomes that are fit for purpose.
- Comply with Environmental, Quality, WHS and procedural requirements.

SUPERVISORY RESPONSIBILITIES

This role currently has no direct supervisory responsibilities.

WORK HEALTH & SAFETY

Team Member Level 3:

Team Members at this level must possess an understanding of basic WHS principles together with awareness of the relevant legislative requirements of the WHS Legislation. Responsible for the completion of Incident Report Forms as well as facilitating corrective action on Incident Report Forms. Required to undertake thorough investigation of incidents/hazards. Required to attend and complete Plant Risk Assessment and Risk Score calculator's for implementation of cost justifications for changes/repair. Team Members at this level must have an understanding of the requirements for Work Health Safety throughout the lower levels of the organisation.

AUSTRALIAN CONSUMER LAW – *Competition & Consumer Act 2010 (Cth)*

Team Member Level 3:

Team Members at this level must possess a working knowledge of all areas of the *Competition & Consumer Act 2010 (Cth)*, and be fully aware of their obligations and responsibilities when representing the Group in the market place. Team Members at this level are responsible for the completion of all documentation pertaining to Competition & Consumer Act Compliance. Team Members must familiarise themselves with the Group's Competition & Consumer Act Policy, and ensure compliance to the Policy at all times by themselves and their subordinates, as well as ensuring that their subordinates remain trained and fully informed concerning all areas of the Act.

REVIEW

This document is subject to continual review and improvements and may also be subject to amendments during the term of your employment.

If you identify the scope of your tasks moving away from this document without consultation, refer the matter to your supervisor for discussion. In addition, this document is reviewed as part of the formal performance review process.