BATTERY ENGINEERING

Master Instruments Pty Ltd
Head Office: 13 Sheridan Close (Locked Bag 277) Milperra NSW 2214
P: +61 2 9519 1200 **F:** +61 2 9519 4604 **E:** employment@master-instruments.com.au
ABN 84 000 053 921

POSITION AVAILABLE

Electronics Engineer

Location: MI Sydney — Milperra, NSW

Job details

Occupation Category	Mechatronics /Electronics (DC Power Engineering)
Job title	Electronics Engineer
Job type	Permanent
Terms of employment	Full Time
Hours	38 per week (Mon to Fri)
Job location	Master Instruments HQ 13 Sheridan Close Milperra NSW 2214
Salary	Above Award
Number of positions	1

About Master Instruments

We are a wholesale distributor and manufacturer of portable power products, including - but not limited to - batteries, chargers, testing & measuring equipment, solar panels and inverters, and energy storage systems.

Job description

Experience required: Bachelor Degree or higher in Electronic Engineering

Objective: Designs, develop, adapt, installs, tests, and maintain electronic components, circuits and systems used for battery & portable power solution systems, communication systems, for transport, mining, telecommunications and other industrial applications.

Job task and duties:-

- Designing electronic components, circuits and systems used for portable power systems. The ability to understand battery management systems involving CAN Bus and Microcontroller (MCU) coding, programming control systems, and battery charging solutions.
- Designing software, especially embedded software, to be used within such systems.
- Developing apparatus and procedures to test electronic components, circuits, and systems.
- Supervising installation and commissioning of computer, communication, and control systems, and ensuring proper control and protection methods.
- Establishing and monitoring performance and safety standards and procedures for operation, modification, maintenance, and repair of such systems.
- Designing communications bearers based on wired, optical fibre and wireless communication media.

See over for more details.

How to apply:

Please forward email introduction and resume to employment@master-instruments.com.au

Melbourne *(Sales & Distribution)*
81 Merrindale Drive
Croydon South VIC 3136
P: +61 3 9872 6422
F: +61 3 9872 6466
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P: +61 8 9302 5444
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Location: MI Sydney — Milperra, NSW

Job task and duties continued:-

- Analysing communications traffic and level of service, and determining the type of installation, location, layout, and transmission medium for communication systems.
- Designing and developing signal processing algorithms and implementing these through appropriate choice of hardware and software.
- Experienced Electronics Engineer is required to engineer, design, develop, test, and supervise the manufacture of electrical and electronic equipment and work with customer & internal BDM team to create new circuits and portable power solutions to customers requirements.
- Understanding of all Primary & Rechargeable battery technologies.
- Ability to design in solutions and repair & trouble shooting work.
- Battery cell & pack design in for optimum assembly techniques.
- Battery design & schematics for battery charger manufacturing & assembly.
- Upgrade existing designs of products to improve efficiency and performance.
- Build prototypes of concepts to determine technical feasibility and to present to management and to customers for in-field testing.
- Work with operations team to optimise design for manufacturing from concept stage.
- Assist operations team when new products are going into production.
- Concept designs and feasibility studies for new applications.
- Testing & R&D of new battery, charger & DC power products to be ranged.
- Knowledge of solar industry & brands.
- Previous practical experience with DC & solar installations.
- Provide lab inspection reports on repairs and returned DC power products, batteries & test equipment.
- Repair work on product warranty and fault reporting & analysis.
- Provide detailed & accurate analysis of battery & device integration including power, charge & communication between the two.
- Direct research to improve and develop electronic systems; direct equipment installation, trouble shooting and repair; develop test standards and operating instructions; design and develop test instruments; test new or modified equipment; review test data; report results, and recommend actions.
- Working with colleagues to design new systems, circuits and devices or develop existing technology.
- Work with suppliers and manufacturers to establish specifications for needed equipment and keep up on the latest developments.
- Discussing proposals with clients.
- Testing theoretical designs.
- Writing specifications.
- Following defined development processes.
- Systematically improving the detailed design of a piece of electronic equipment.
- Ensuring that a product will work with devices developed by others, can be made again reliably, and will perform consistently in specified operating environments.
- Creating user-friendly interfaces.
- Ensuring safety regulations are met.
- Consults with researchers and other users on the need and objective output of electronic instruments and equipment; recommends the types of equipment to be used in meeting the desired objectives.
- Keeping up to date with developments in technologies and regulations.
- Performs related work as required.

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