



Position Title: Process Control Engineer (Level 2)

Location: xxx

Employment Status: Permanent full time

Provecta Process Automation Pty Ltd is an Australian owned electrical and controls engineering consultancy company specialising in the fields of industrial automation, technology and control systems, with an emphasis in power generation and related industries.

Purpose of Position: Provision of control and electrical engineering services to Provecta's clients.

Essential Requirements

- Degree qualifications in Electrical, Controls or Computer Systems Engineering.
- Minimum of three years post graduate professional experience of which would allow the engineer to achieve the status of Member of Engineers Australia.
- High level of computer literacy using Microsoft Office suite of products (Word, Excel, Access).
- Personal skills allowing effective contribution to, and ability to work within a team environment
- Holder of a full Australian driver licence.

Desirable Requirements

- Previous experience using a function based control system programming tool such as those used in Programmable Logic Controllers (PLC's) or Distributed Control Systems (DCS).
- Practical experience in process control applications, instrumentation and/or electrical engineering design for industry.

Selection Criteria

- Extent of relevant engineering experience.
- Undergraduate academic results.
- Demonstrated ability to plan work activities to achieve an outcome within an agreed time frame.
- Proven ability to work with attention to detail and to accurately document work activities undertaken.
- Effective oral and written communication skills in English.
- Demonstrated initiative and flexibility.

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Managing Director
Provecta Process Automation Pty Ltd
PO Box 311 Strawberry Hills NSW 2012

POSITION DESCRIPTION

Position Title(s): Process Control Engineer (Level 2)

Location: xxx

Employment Status: Permanent - full time

Purpose of Position:

The provision of process control system engineering services to Provecta's clients.

Reporting Relationships

The position reports directly to the Engineering Manager. It is noted that, the incumbent will take direction from other senior Provecta staff on a project by project basis.

Company Background

Provecta Process Automation Pty Ltd is an Australian owned electrical engineering consultancy company specialising in the fields of industrial automation, technology and control systems, with an emphasis in power generation and related industries. Our highly qualified engineers, project managers, and support staff hold significant expertise in the provision of process control solutions, electrical engineering services, and systems integration management.

We strive to be recognised by our clients as the preferred supplier of specialised automation/control technology, electrical engineering and project management services. We achieve this recognition by providing client focussed engineering solutions committed to meeting every client's expectations for value, responsiveness and quality.

The engineer is required to assist Provecta in achieving our corporate aims and maintaining our reputation for the delivery of quality technical solutions to clients. We are committed to the professional development of our engineers, and offer engineers challenging roles in a technically specialised organisation working with a variety of control system vendors' equipment.

Position Scope

As a Level 2 control systems engineer the will assist Provecta's senior professionals as required in the provision of advice and engineering services to Provecta's clients. The engineer will be required to plan and conducts professional engineering work without detailed supervision, but with guidance on unusual features. Work is carried out in the following technology areas:

- SCADA and PCS systems and applications
- Analog and digital control systems (modulating and sequence)
- Data Acquisition and Digital Systems maintenance and support
- LAN and WAN communications and network systems
- Human Machine Interfaces (graphical user interfaces)

- Critical process protection systems such as Burner Management Systems
- Power Generation Coordinated Control Systems
- Field instrumentation (process monitoring transmitters/transducers)
- Field actuators/controllers
- Power supplies and electrical distribution systems
- IT security audits and advice for control systems and associated computer equipment
- Power Plant Simulators

Major Activities and Duties

- Undertake PCS and/or DCS logic coding, testing and commissioning.
- Develop graphic interfaces for client control systems to provide effective and practical human machine interfaces.
- Undertake electrical equipment and instrumentation systems design and procurement for process control system projects.
- Attend remote industrial sites in the course of delivering control engineering services.
- Conduct investigations into existing process control systems and provide recommendations for improvement or enhancement.
- Development of databases and OPC interfaces between process control systems and corporate reporting systems.
- Creation of documentation associated with projects undertaken (e.g. O&M Manuals, Inspection and Test Plans,
- Prepare and conduct technical training courses
- Contribute to the preparation of engineering services proposals and quotations for new and existing clients.
- Contribute to the development of the Provecta client base.

Position Responsibilities

The engineer will be required to conduct engineering assignments requiring substantial professional experience. The engineer initially undertakes professional engineering tasks of defined scope and complexity, such as minor phases of broader assignments in office, plant or remote site work.

Under guidance the incumbent performs engineering work and exercises individual judgement and initiative in the application of engineering principles, techniques and methods. In assisting more senior professional engineers by carrying out tasks requiring accuracy and adherence to prescribed methods of engineering analysis, design or computation, the engineer is required to draw upon advanced techniques and methods learned during and after the undergraduate course.

Training, development and experience using a variety of standard engineering methods and procedures enables the professional engineer to develop increasing professional judgement and apply it progressively to more difficult and complex tasks.

Decisions are related to tasks performed, relying upon precedent or defined procedures for guidance. Recommendations are related to the solution of problems in connection to the tasks performed.

Work is reviewed by higher-level professional engineers for validity and adequacy. It is anticipated that after an initial exposure to Provecta's internal methods and procedures that the engineer will perform their engineering tasks with minimal review of the methodology adopted.

With further demonstrated professional development and experience, work receives less review, and the engineer is required to exercise individual judgement until the level of competence at Level 3 is achieved and the engineer is capable of leading small projects and undertaking complex tasks and with minimal guidance.

It is anticipated that the engineer in carrying out their duties will:

- Plan work activities to achieve an outcome within an agreed time frame.
- Participate and work within a technical project team environment.
- Work with attention to detail and to accurately document work activities undertaken.
- Exhibit flexibility in relation to working patterns to achieve completion of tasks to client requirements.

The engineer will be required and expected on occasion to travel to industrial sites to perform their assigned tasks, and is required to exhibit flexibility in being available for this remote work.

Performance Reviews

Performance will be reviewed annually.

During the annual performance review the engineer is encouraged to provide guidance as to the areas of specialist technical and professional development that they are interested in pursuing.

Salary will be reviewed annually and will be assessed against following criteria:

- Performance in the preceding 12 months as determined by the formal performance reviews.
- Demonstrated and potential technical expertise and "value" to the business.
- Contribution to the consolidation or expansion of the Provecta market base (i.e. winning of new contracts and/or clients)
- Peer and market salary levels (internal and external)
- Consumer Price Index (CPI) movements

An annual performance bonus may also be available, the payment of which is dependant upon Provecta achieving its business targets and the assessed contribution of the engineer to the achievement of these targets.