

Control Systems and Automation

BEC Engineering is a specialist electrical engineering consultancy providing professional services to the mining, utilities, materials handling, oil and gas, industrial and petrochemical industries.



Control Systems

Our reputation as a process controls systems specialist is the result of our expertise and track record in a variety of processes across a wide range of plants.

This experience allows us to quickly comprehend your process and its variables, and apply our knowledge to optimise the response of your plant to changing conditions.

Whether it's a new project or you need to optimise your existing processes, BEC can help. We will deliver the improvement you require with simple and effective solutions.

Automation

Our experience encompasses all aspects of automation for existing and new plants. For mobile or fixed equipment using any proprietary system we use the latest technology to deliver customised automated systems where cost benefits are highly visible.

Service Range

Large Projects and Process Plants

- > Major control systems
- > Development projects on PLC/SCADA/DCS platforms

Process Systems and Generation

- > Support control systems projects for electrical power group PLC/SCADA/DCS control room design

Controls and Automation

- > Detection systems
- > Profiling systems
- > Route sequencing
- > Anti-collision
- > Robotics
- > Stockpile control
- > Machine optimisation

OEM Controls

- > Grinding mills
- > Crushers
- > Car dumpers
- > Reclaimers
- > Shiploaders
- > Stackers
- > Harvesters
- > Filters
- > Reactors
- > Thickeners
- > Concentrators

Process Optimisation and Modelling

- > Process control and simulation
- > Expert systems
- > Process modelling
- > Loop tuning
- > Setpoint and multivariable controllers

Networks and Communications

- > Network design
- > Telemetry
- > Microwave systems
- > Voice and data radio
- > Fieldbus systems
- > Comms protocols
- > VOIP, CCTV, etc, RFID, GPS, GSM

Production Systems

- > Database programs
- > Historians
- > Web access
- > Production reports
- > Training simulators
- > MES
- > Custom solutions

Oil and Gas

- > Hazardous area systems
- > ESD systems
- > SIS systems

Site Support

- > Site-based support
- > Remote access
- > Phone callout systems