

G.V.R.D.

TITLE: Digital Control Software Specialist

POSITION DESCRIPTION

NO: 420

DATE: March 18, 1992

PURPOSE OF POSITION

Under general direction, to act as digital control system software specialist for real-time computer systems used in water and waste water control and data systems, such as supervisory control and data acquisition systems (SCADA) and distributed control systems (DCS). Acts as a software manager for one or more of these systems.

DUTIES

The duties described hereunder are intended to be representative of the position and are not to be considered as all-inclusive:

Maintain control of data acquisition databases and master system configuration, add new points, modify points, add RTUs channels, peripherals.

Prepare software problem reports and coordinate with system software supplier to resolve problems.

Monitor SCADA / DCS system computer utilization and maintain maximum performance of the system.

Maintain software security of SCADA / DCS systems.

Maintain database quality control and accuracy. Assist in identifying analog points which are unreliable or out of calibration.

Participate in the implementation of advanced software applications and automatic control strategies including network modeling.

Maintain historical database and service requests for data.

Develop applications reports which utilize historical data.

Provide training for operators and other users of the SCADA / DCS systems.

Coordinate with MIS and User Departments concerning applications for integration of SCADA / DCS data with GVRD network servers and users.

Create new graphic displays with operations staff input and suggestions and modify existing displays. Maintain standards for system displays and graphics.

Purchase minor materials and equipment. Follows purchasing and accounting procedures as relevant for job.

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DUTIES (cont'd)

Assists operating and other maintenance personnel in the safe and effective use of equipment.

Co-ordinate work with other departments and trades, reports on work progress.

Keep up-to-date with current level of technology and apply to new work methods, techniques and safety regulations.

Attend training courses and seminars relevant to duties of the job in areas such as safety, new or revised software, new equipment and work methods.

Prepare and maintain neat and accurate records and record systems such as equipment acceptance tests, setting sheets, program listings and documentation, maintenance records, trouble reports and drawings.

Assists in the evaluation of new equipment, software, and procedures by carrying out functional and maintenance checks on the equipment / procedures.

Other related duties, as required.

REQUIREMENTS (Minimum to fill position)

Bachelor degree in computer science, mathematics or related field, with three years experience in real-time systems operations in a plant process or manufacturing environment, system design, modifications and analysis, or two-year technology diploma in computer systems, with 5 years applicable experience.

Requires knowledge of, and experience with, operating systems such as VAX-VMS, ULTRIX and MS-DOS.

Programming and application experience with programs/standards such as Fortran, C, UNIX Shell, Sybase, TCP/IP, OS1, NFS and ethernet.

Experience in a real-time operating environment, linking digital control systems to management and engineering information systems is preferred.

Good written and verbal communication skills.