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**POSITION DETAILS**

Under the general supervision of the NSE Project Engineer Supervisor, work with Maintenance and Installation groups of the NSE as the MEDIA System Engineer in coordinating project and service requests. Provide technical expertise in the design, cost estimation, administration, support, and research of campus digital multimedia systems and related equipment. Provide assistance for troubleshooting & repair of these systems as required by Installation and Maintenance teams. Assure projects are completed on time, on budget and billed accordingly. Work with other CR staff on training, instruction and support of Media systems for departmental and instructional use on campus.

**Job Summary:**

Serve as a technical Engineering expert for media systems design and installation, testing, debugging, and operation of digital multimedia systems located in lecture halls, classrooms, and conference rooms. Independently responsible for systems application administration relating to the remote asset management of multimedia systems. Prepare technical engineering drawings and designs to be included in estimates and proposals for installations. Independently work with clients to determine specific multimedia needs in order to...
design systems for instruction in learning spaces. Independently research, design, develop, adapt, modify, & document estimated systems and upgrades for a wide variety of campus digital media equipment, including complex digital control panels, computer/data projection systems, and sound reinforcement systems in accordance with industry and campus standards. Coordinate network requirements regarding remote asset management of A/V systems for the campus. Consult with Design and Construction Management (DCM) regarding new classrooms, lecture halls and conference rooms for A/V needs as assigned. Provide cost estimates to DCM Project Managers as required. Work closely with Installation Supervisor on large-scale venues regarding A/V systems design and installations performed by A/V Engineering.

15% ANCILLARY RESPONSIBILITIES
Support Communications Resources goal of innovation and effective customer service through performance of job functions. Work cooperatively with other CR and IET unit to achieve and maintain a cohesive and strong customer service environment. Attend professional development and technology conferences and courses as required to maintain current in AV Engineering.
Attend Safety and Hazardous Material Certification courses as required.
Work on special projects as assigned.

Physical Demands:
Lift and move materials weighing up to 50 pounds.

- Due to the mission-critical services provided by this department, this position may work hours other than M-F 8-5, especially in response to system problems or special projects.
- Participate in the Department of Motor Vehicles (DMV) Pull Notice System. Valid CA driver's license required.
- Occasional travel required.
- Travel between campus and off-campus locations.
- UC Davis is a smoke and tobacco free campus effective January 1, 2014. Smoking, the use of smokeless tobacco products, and the use of unregulated nicotine products (e-cigarettes) will be strictly prohibited on any UC Davis owned or leased property, indoors and outdoors, including parking lots and residential space.
- Address any workplace safety issues with supervisor.
Participate in typical workplace hazards review via the job safety analysis and personal protective equipment process.
Complete required safety training per supervisor. Assist the safety coordinator and safety officers in implementing workplace safety practices. Escalate any issues to the designated safety coordinator, safety officer, and/or department director promptly.

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Background Check: Yes

QUALIFICATIONS

Minimum Qualifications:

- Technical expertise in the field of multimedia network control systems, operation and programming procedures such as Extron and Crestron.
- Experience in assessing the quality of work done and communication skills to convey that information to management.
- Competency with all related measurement test equipment and waveform analysis equipment including spectrum analyzer, oscilloscopes, DVM's, frequency counters, distortion analyzers, vector-scopes etc.
- Independent problem solving and critical thinking skills to diagnose a problem and determine steps necessary to produce an effective solution.
- Skills to instruct others effectively.
- Knowledge and application of electronic, mechanical, and installation safety standards.
- Experience in reading drawings and schematics of systems to be installed as well as working with and interpreting existing blueprints and schematics.
- Experience with electronic theory, practical system designs, analog and digital circuitry.
- Experience installing, troubleshooting, and assembling complex digital media equipment systems (e.g. enclosures, equipment racks, electrical mounting devices, and associated hardware).
- Experience with PC and Apple computer use, connection, and troubleshooting, including their ability to function with a variety of audio-visual equipment.
- Experience with the use of computer software programs for documentation, record keeping, and email.
Preferred Qualifications for Selection:

- Extensive experience with the design, application, and installation of multimedia systems (e.g. remote asset management, projection, videoconferencing, and audio systems).
- Thorough understanding of Crestron products and design.
- Crestron Programming Certification for programming and design of Crestron control systems.
- Technical experience with video routing, hardware video encoders, MPEG-4 multi-casting and digital video archiving systems.
- Technical expertise in the field of multimedia network control systems, operation and programming procedures.
- Technical experience with Videoconferencing CODEC systems such as Polycom and LifeSize, including all associated video conversion and compression and audio capture and compression for delivery of intelligible signals.

Expectations

- Demonstrate commitment and support of the UC Davis Principles of Community.
- Skills to maintain competency in a rapidly advancing industry.
- Perform effectively with constant interruptions and work simultaneously on several projects independently, using judgment in determining priorities.
- Demonstrate strong communication skills to interact with clients in a manner that is consistent with accepted university standards.
- Accountability for the safekeeping of resources in the employee's care and custody and for following and implementing the cyber-safety guidelines.
- Establish priorities; organize tasks, and direct effective implementation of tasks in a demanding work environment.
- Willingness to learn and apply new technology and willingness to develop skills to promote professional growth.
- Willingness to routinely stay in communication with technical staff at other organizations to stay abreast of computing developments and resources available over the network.
- Demonstrate excellent communication (oral, written, presentation, documentation) and interpersonal skills, using tact and diplomacy for interactions with clients and vendors.
- Constantly remain abreast of the media and distribution
equipment currently available, their capabilities, cost effectiveness, and compatibility with other campus systems as well as staying focused on emerging technologies in this industry.

- Independently follow projects through to successful completion with a high degree of quality.