

Senior TV Engineer

Position Details

Class Code: 4830

Job Family: Broadcast/Communications

Classification: Support Professional

Terms of Employment: [Pay Grade 56 on the Support Professional Salary Schedule](#)

FLSA STATUS: NON-EXEMPT

Position Summary

Under general supervision, installs, maintains, and repairs broadcasting/production equipment.

Essential Duties and Responsibilities

This list of Essential Duties and Responsibilities is not exhaustive and may be supplemented.

1. Installs broadcasting equipment.
2. Serves as alternate Chief Operator of Clark County School District transmitter sites.
3. Assists with the research and development of interconnecting and delivery systems such as satellite uplinks and fiber optic technology.
4. Repairs broadcasting and production equipment.
5. Tunes transmitters to maintain efficient operation.
6. Diagnoses cause(s) of equipment malfunctions.
7. Installs audio and video patching systems.
8. Operates microwave and terrestrial transmission systems.
9. Maintains, troubleshoots, and repairs television transmitters, microwave links, satellite reception/transmission systems, remote site translator systems, studio and portable cameras, studio production switcher systems, synchronizing and timing equipment, film chains, audio consoles, video monitors and receivers,

- audio and video patching systems, and intercom headset systems using technical schematics, etc.
10. Maintains television broadcasting equipment and systems in accordance with Federal Communication Commission (FCC) television transmission parameters, frequency, bandwidth, modulation, power, and NTSC color television pulse standards, where applicable.
 11. Configures systems, specifies models, installs, evaluates, calibrates, and operates equipment, as required.
 12. Performs Master Controller Operator and Telecine duties.
 13. Performs videotape editing in support of recorded productions and live broadcasts.
 14. Maintains logs of programs transmitted, transmission equipment adjustments, and frequency checks.
 15. Orders replacement parts and researches equivalent parts when originals are no longer available.
 16. Prepares research documentation for grant applications.
 17. Supervises assigned staff of TV Engineer I and II's.
 18. Conforms to safety standards as prescribed.
 19. Performs other tasks related to the position as assigned.
-

Distinguishing Characteristics

Involves technical work in the installation, repair, and maintenance of telecommunications broadcasting equipment.

Knowledge, Skills, and Abilities (Position Expectations)

1. Knowledge of television transmitting, microwave, satellites, translators, and studio equipment.
2. Knowledge of Educational Broadband Service (EBS), Master Antenna Television (MATV), and Community Access Television (CATV) systems.
3. Knowledge of advanced electronic circuit troubleshooting.
4. Knowledge of televisions and production activities.
5. Ability to distinguish color-coded wires.
6. Ability to work in remote and/or isolated areas.
7. Ability to read, interpret and apply FCC, Bureau of Land Management (BLM), and Occupational Health and Safety (OSHA) rules and regulations.

8. Ability to operate and maintain television equipment.
 9. Ability to read and interpret complex schematics.
 10. Ability to operate electronic testing equipment.
 11. Ability to analyze test results.
 12. Ability to judge when to act independently and when to refer situations to a supervisor.
 13. Ability to plan and organize work.
 14. Ability to work in confined areas.
 15. Ability to work flexible hours or shifts.
 16. Ability to withstand heights and perform work safely.
 17. Ability to work cooperatively with employees, vendors, and the public.
 18. Ability to recognize and report hazards, and apply safe work methods.
 19. Possess physical and mental stamina commensurate with the responsibilities of the position.
-

Position Requirements

Education, Training, and Experience

1. High school graduation or other equivalent (i.e., General Educational Development (GED), foreign equivalency, etc.)
2. Six (6) years of experience in the repair and maintenance of television broadcast equipment; or,
Associate's degree in electronic engineering from an accredited college or university, plus four (4) years of experience in the repair and maintenance of television broadcast equipment.

Licenses and Certifications

A valid driver's license or state-issued identification card.

Preferred Qualifications

Society of Broadcast Engineers (SBE) Certificate.

Document(s) Required at Time of Application

1. Copy of a valid driver's license or state-issued identification card.
2. High school transcripts or other equivalent (i.e., GED, foreign equivalency, etc.)
3. College transcript(s), if applicable.
4. Specific documented evidence of training and experience to satisfy qualifications.

Examples of Assigned Work Areas

Clark County School District facilities, TV stations, schools, and remote location sites.

Work Environment

Strength

Medium/heavy - exert force of 50-100 lbs., occasionally; 25-50 lbs., frequently; or 10-20 lbs., constantly.

Physical Demand

Frequent climbing, balancing, stooping, kneeling, crouching, hearing, reaching, handling, repetitive fine motor activities and feeling. Mobility to work in a typical office setting and use standard office equipment. Stamina to remain seated and maintain concentration for an extended period of time. Hearing and speech to communicate in person, via video conference and computers, or over the telephone. Vision: Frequent near and far acuity, depth perception and focal length change and color vision. Vision to read printed and online materials, a Video Display Terminal (VDT) screen, or other monitoring devices.

Environmental Conditions

Varies from a climate-controlled office setting to work outdoors with temperatures ranging from mild/moderate to extreme cold/heat. Exposure to noise levels ranging from moderate to loud for occasional to frequent time periods and frequent electrical shock hazards.

Hazards

Furniture, playground/office equipment, communicable diseases, chemicals and fumes (as related to specific assignment), and power/hand-operated equipment and machinery (as related to specific assignment).

Examples of Equipment/Supplies Used to Perform Tasks

Spectrum analyzer, oscilloscope, waveform monitor, vector scope, field strength meter, analog and digital multi-meter, circuit schematic drawing soldering station, hand/power tools, test generator, four wheel drive District-issued/personal vehicle, ladders, etc.

AA/EOE Statement

The Clark County School District is proud to be an equal opportunity employer. The Clark County School District is committed to providing all applicants and employees equal employment opportunities without regard to race, color, religion, sex, gender identity or expression, sexual orientation, national origin, genetics, disability, age, military status, or other characteristics protected by applicable law. Here at Clark County School District, we are a diverse group of people who honor the differences that drive innovative solutions to meet the needs of our students and employees. We believe that through a culture of inclusivity, we have the power to reflect the community we serve.

Job Revision Information

- Revised: 06/01/23
- Created: 12/13/85