

DESCRIPTION: Under general supervision performs skilled work operating automated master control playlists, network operation, transmission, satellite and video streaming equipment requiring precise timing to ensure accurate television and radio broadcasts, and internet streams. May provide simultaneous satellite distribution of television programming to regional and/or national networks. May operate remote satellite vehicle and equipment. May coordinate with the Public Broadcasting Service to assist with the Diversity Disaster and Maintenance System. Performs related work as assigned.

DISTINGUISHING CHARACTERISTICS: (A position is assigned to this class based on the scope and level of work performed as outlined below.)

This classification is responsible for operation of Advanced Television Standards Committee (ATSC/digital) television, FM, and High Definition radio transmitting equipment at the Nebraska Educational Telecommunications (NET) broadcasting station. Positions responsible for repairing, installing or maintaining broadcast equipment systems are classified to the Educational Telecommunications Maintenance Engineer class.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Responsible for quality control of broadcast operations under their purview, and that broadcasts are in concurrence with traffic schedules and in accordance with Federal Communications Commission (FCC) programming logs, running automated playlists.

Ensures programs and station breaks are broadcast, cablecast, uplinked or streamed at the designated times, on all services.

Selects sources from which programming will be received, or through which programming will be transmitted.

Maintain programming, Emergency Alert System (EAS), uplink, streaming, and transmitter logs.

Monitors strength, clarity, and reliability of incoming and outgoing signals, adjusts as necessary to maintain quality broadcasts.

Controls audio and video equipment to ensure volume, sound quality, and picture fidelity, brightness and contrast and in accordance with FCC regulations and NET quality standards.

Operates satellite receivers; completes satellite uplinks and downlinks to obtain signals for transmission of broadcasts.

Schedules and controls internet streaming encoders for live web events.

Monitors ATSC television, FM and High Definition radio transmitting equipment to ensure equipment is functioning properly and in accordance with FCC regulations and NET standard operating procedures.

M35113 – ETC ENGINEER II (continued)

Sets up videotape equipment, optical disk, and video servers to record and playback program material. Performs manual and automatic video/audio switching. Makes video and audio corrections as needed to maintain best visual quality and aural fidelity.

Checks automation lists for proper record and playback sequences on all channels.

Uses and interprets waveform monitors, vector scopes, spectrum analyzers, and audio analyzing test equipment to assure Federal Communications Commission and NET compliance, including Closed Caption compliance

Reports equipment problems, ensures repairs are made, and escalates problems to the appropriate party.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED: (These are needed to perform the work as assigned.)

Knowledge of: broadcast operations; electronic test equipment; high definition, standard definition and analog television signals, and be computer literate; FCC and NET policies, rules and regulations; operation of a variety of monitoring and test equipment including video servers; television automation playlists, videotape machines; broadcast switching operations; and internet streaming equipment.

Ability to: interpret a variety of video test signals; operate broadcast technical equipment; maintain audio and video quality to prescribed professional standards; operate video monitors, satellite receivers, videotape machines, video servers, transmission equipment, and computer-based broadcast automation equipment; video streaming encoders; work independently under pressure and react quickly and correctly; communicate effectively and through computer-generated discrepancy reports.

MINIMUM QUALIFICATIONS: (Applicants will be screened for possession of these qualifications. Applicants who need accommodation in the selection process should request this in advance.)

Three years experience in broadcast electronics, television production, switching master control or advanced schooling in a related field.

SPECIAL NOTES:

Requires travel for some positions.

Persons operating the remote satellite vehicle must be at least 18 years of age, must possess a valid driver's license, and must be able to obtain a Commercial Drivers License (CDL) with endorsements within 60 days of employment. Loss of license may result in termination of employment.

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).