

Colorado Public Radio Job Description (January, 2022)

Position: Senior RF Engineer (Broadcast)
Reports To: Vice President, Engineering
FLSA Status: Full time, Exempt
Department: Engineering
Location: Denver metro area

Summary:

The Senior RF Engineer is an integral team leader, working in collaboration with the VP of Engineering and the Broadcast / IT Engineers to maintain all broadcast production and distribution systems across our statewide network. The Senior RF Engineer supports functions including remote monitoring and troubleshooting to ensure all network systems are as reliable and technically effective as possible and acts as a mentor to the team to ensure industry best practices.

Essential Duties and Responsibilities:

- Maintain, design and install broadcast equipment; broadcast transmission systems including satellite uplink and downlink sites; and monitoring and remote control systems.
- Ensure all necessary and appropriate technical studies and FCC permits are obtained for current sites and that any future projects are in full compliance.
- Designated FCC “Chief Operator” for all of CPR’s broadcast facilities.
- Keep current with the state of the art for broadcast related software, RF, production and distribution systems and equipment.

Core Competencies:

- **Change/Adaptability/Flexibility:** Adapts to change that benefits CPR, is open to new ideas, takes on new responsibilities, handles pressure, adjusts plans to meet changing needs.
- **Communication:** Communicates well both verbally and in writing, promptly shares information and ideas with others throughout the organization as appropriate, has active listening skills, can negotiate and persuade as needed.
- **Results Focus/Initiative:** Targets and achieves results, sets challenging goals, prioritizes tasks, overcomes obstacles, accepts accountability, sets high standards and takes responsibility, provides leadership/motivation.
- **Collaboration:** Working collaboratively with others to solve problems, achieve common goals and positive results. Listens to others and values opinions. Is open with other team members and expresses disagreement constructively. Seeks opportunities to work on teams as a means to develop experience and knowledge.

Additional Competencies:

- Ability to communicate and listen actively.

- Ability to think and act strategically.
- Ability to adapt to changing needs.
- Ability to multitask and to prioritize assigned tasks.
- Strong writing and oral communication skills.
- Detail oriented and excellent organizational skills.
- Analytical thinking and the ability to problem solve.
- Ability to act as a team lead to advise, train, and mentor others.

Knowledge, Skills, and Abilities:

- A minimum of 7 years direct experience in Broadcast RF engineering.
- Current CBRE certification from the Society of Broadcast Engineers (SBE) or ability to attain certification within 1 year of employment required.
- Experience with filing FCC licensing and maintaining compliance with FCC part 73 rules and regulations.
- Experience with RF Transmitters, filters, combiners, transmission lines and antenna systems.
- Experience with satellite broadcast uplink/downlink systems.
- Experience with wireless licensed and unlicensed point to point audio and IP links.
- Experience with Spectrum Analyzers, Oscilloscopes, and other electronic test equipment.
- Experience with AutoCAD and RF propagation software.
- Knowledge of Windows operating system.
- Because radio broadcasting is an audio medium, you must be able to discern audio problems through auditory senses.
- Since IT and broadcasting equipment will need to be moved on occasion, you must be able to lift at least 50 lbs.
- Valid driver's license and clean driving record required.
- Access to a reliable vehicle highly preferred when company truck is unavailable or deployed elsewhere.
- Occasional non-standard hours and 24/7 on call apply.

Position is based in the Denver metro area. Incumbent is required to live within 50 miles of our major transmission sites located on Lookout Mountain and our broadcast facilities located in Centennial, CO.