

ALASKA PUBLIC MEDIA
3877 University Drive
Anchorage, Alaska 99508
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Title: Television IT/Broadcast Engineer
Reports to: Chief Technical Officer
FSLA Status: Non-exempt
Version: 1.1

Alaska Public Media (AKPM) seeks a Television IT/Broadcast Engineer. The IT/Broadcast Engineer is responsible for the installation, proper operation and maintenance of a wide array of state-of-the-art computer based systems used for modern day television and radio broadcasting. The IT/Broadcast Engineer is also responsible for the administrative IT infrastructure for Alaska Public Media and must be experienced with baseband digital video and audio, real time and current non-real time digital video/audio compression technology, television broadcast automation, television traffic systems and digital television broadcast delivery.

AKPM is the source for NPR radio and PBS television for South Central Alaska and stewards the statewide Alaska Public Radio Network.

Essential Functions:

The Television IT/Broadcast Engineer will:

- Demonstrate a good understanding of current television broadcast technology, including video and audio interfaces and video/audio in the compressed domain
- Perform the setup, configuration and maintenance of software and hardware based broadcast equipment.
- Provide technical assistance to broadcast operations when required.
- Implement equipment installation and maintain documentation.
- Other duties as assigned.

Duties and Responsibilities:

In addition to the above functions, the Television IT/Broadcast Engineer will:

- Thorough understanding of setup, configuration and operation of computers including various hardware and multiple operating systems and software applications.
- Working knowledge of signal standards, schematics, system diagrams, electronic theory and strong mechanical aptitude.
- Knowledge of video over IP signal workflow.
- Strong interpersonal skills required guiding others through difficult high stress equipment operations.

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- Excellent written and oral communication skills.
- Self-motivated with the ability to complete tasks with minimal supervision and in a timely manner.
- Ability to use and understand diagnostic test and monitoring equipment in a broadcast/IP systems environment.
- Ability to multitask, prioritize and work adhering to a tight delivery schedule.
- Extensive knowledge of IT troubleshooting and problem solving.
- Ability to communicate with non-technical personnel to resolve equipment/technical issues.
- Ability to find a solution for or to deal proactively with work related problems.
- Ability to comprehend complex technical topics and specialized information.
- Must be able to coordinate and communicate effectively with corporate partners.

Required Qualifications:

- Five years' experience working in a television broadcast/IT field.
- Associate's Degree or accredited Technology Diploma in Communications Technology and/or Information Technology
- Possess good mechanical aptitude.
- Ability to use and understand broadcast diagnostic test and monitoring equipment.
- Valid driver's license

Desired Qualifications:

- Bachelor's Degree.
- SBE certification
- Areas of emphasis:
 - ✓ Audio/Video over IP for Broadcast
 - Routing approaches
 - IP address management
 - UDP and TCP
 - Unicast/Multicast
 - Utilizing VPNS
 - QOS and Packet Loss and Jitter
 - IPv6
 - Wireless transmission performance issues
 - ✓ Digital Content Management
 - SMPTE/EBU Metadata framework
 - General Metadata wrappers
 - Process of MAM (Media Asset Management)

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- ✓ Video Systems in and IT World
 - Networked Media
 - Basics of File-Based Workflows
 - Storage and play-out systems as optimized for video
 - Large scales backup strategies
 - Database connectivity (ODBC)
 - High-Availability Design and Architecture
 - SDI
- ✓ Data Transmission Systems and Practices
 - OSI layers
 - IP Address Assignment
 - DS and OC System data rates and service options.
- ✓ General PC Hardware, Interconnection, and backup
 - Hard Drive Types and Applications
 - MAC Addresses and NICs
 - Categories of interconnection wiring
 - UTP and STP, Fiber Optic systems
 - System Fault Tolerance, RAID, SAN, NAS
 - UPS Systems

Allowable Substitution

If necessary, alternative combinations of education and experience will be evaluated by the Human Resources Office for comparability.

Competencies:

- Act in accordance with AKPM policies.
- Support AKPM compliance efforts with FCC, CPB, NPR and PBS rules and regulations
- Communicate effectively.
- Apply critical thinking and problem solving skills.
- Maintain positive relationships with both internal and external customers.
- Demonstrate consistent outstanding customer service.
- Proficient at computer use to include office software products, custom software packages, internet and e-mail.
- Consistently demonstrate ethical behavior.
- Must exercise good judgement for the prompt completion of responsibilities.

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Employee Expectations:

Must be able to work in a constantly changing environment with demonstrated ability to juggle and prioritize multiple, competing tasks and demands while seeking supervisory assistance as appropriate.

Physical Demands:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

The employee is regularly required to stand, walk and sit; use hands to handle or feet; reach with hands and arms; talk and hear. The employee is occasionally required to stoop, kneel, crouch or crawl. The employee must be able to lift and/or move up to 50 pounds.

Work Environment:

The work environment characteristics described here are typical of a television/radio broadcast office environment and representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations will be made to enable individuals with disabilities to perform essential functions.

The noise level in the work environment is usually moderate.

Alaska Public Media is an equal opportunity employer.

Send resume and cover letter to hr@alaskapublic.org