



Engineering Apprentice

Job Title: Mobile Unit Engineering Apprentice

Status: Full-time

Dept: Engineering

Division: Columbus OH or Nashville TN

Purpose:

The purpose of this position is to develop engineering and broadcast equipment maintenance skills through 3 program phases. Successful completion of the program will result in a Mobile Engineer position (E2). Once the Apprentice demonstrates their ability to move to the role of Mobile Engineer 2, they will coordinate, manage, and perform necessary maintenance activities required for broadcasting equipment on a mobile unit and/or flypack working with the Engineer In Charge in order to meet client requirements and operate up to LMG standards of quality.

Developmental Phases:

PHASE I (approximately 2 months)

Work within Facility Field Shop

- Report daily to Field Shop and Maintenance Staff
- Load and offload equipment from mobile units
- Compile load lists for mobile units
- Bar code equipment properly for inventory management
- Tracking and assist in shipping equipment to mobile unit locations or to other company facilities
- Scan equipment into equipment database
- Test the functionality of incoming cable assemblies
- Repair and fabricate cable assemblies
- Fabricate connectors for every required type of cable in a mobile unit
- Learn terminology and cable connector types
- Sorting and prescreening of cable assemblies
- Test fiber optic cables for optical loss and continuity
- Visual inspection of fiber optic connectors
- Cleaning of various connector types
- Mechanical assembly and reinforcement of connector ends
- Terminate and polish connector end faces
- Use and testing of fiber hardware

PHASE II (approximately 4-6 months)

Work with Maintenance/Upgrade Department

- Report daily to Maintenance Engineering Manager
- Learn various connector types and termination techniques
- Cut and label cables and terminate ends
- Laces cables into mobile unit racks and test cables
- Install and fax out equipment
- Understand truck schematics and read truck elevation drawings
- Participate in final mobile unit fax out before events
- Ensure equipment quality control and check out
- Check and repair auxiliary equipment as it passes through field shop (including intercom belt packs, monitors, microphones, speaker stations, etc.)
- Work side by side with Maintenance Engineering and Maintenance Engineers on special projects, various pieces of equipment, and software upgrades

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Engineering Apprenticeship (cont'd)

PHASE II (cont'd)

- Assist in Mobile Unit upgrades, repairs, or construction as appropriate
- Develop working knowledge of IT and software systems within mobile units.
- Install and fax out broadcast gear in mobile units (including cameras and VTRs).
- Shadow on mobile units as an extra Engineer when appropriate

PHASE III. (Approximately 3-6 months)

Work on specified mobile unit(s) as an MU Apprentice (3rd Engineer)

- Report daily to Mobile Unit Engineering Manager and Engineer in Charge
- Set up mobile unit(s) for remote events working with the team
- Provide on-site preventive maintenance, troubleshooting, and repair of television equipment and systems
- Work with Mobile Unit Engineers, Mobile Unit Drivers, and crew members on specific events/packages
- Coordinate equipment and scheduling logistics with Operations Coordinator
- Assist with preparation of technical reports
- Strike and tear down mobile unit(s)

Additional Training provided during program:

- Training courses and/or online courses/seminars, etc. as designated by Senior Engineers as appropriate throughout apprenticeship
- Networking Seminars or training
- Equipment Specific Training through LMG Vendors/Staff

Length and order of program may vary depending on individual aptitude, technical skills, and truck scheduling

Evaluations:

- Evaluation of the Apprentice will be conducted at the completion of each program phase in order to move to the next program phase.
- Final Evaluation and Assessment will be conducted prior to completion of Apprentice Program before moving to Mobile Unit Engineer (E2)

Qualifications:

- Completion of Bachelor, Associates or Technical Degree preferred from a Broadcast Communications, Electronics or Engineering or related major (Broadcast, IT, etc.). A combination of education and experience will also be considered.
- Formal electronics training preferred.
- Strong Mac/PC skills (Microsoft Office operating systems) and proficient knowledge of networking
- Ability to work on tasks and projects independently as well as in a team-oriented environment
- Must be able to work on multiple projects with tight deadlines
- Strong problem solving and analytical skills
- Excellent communication and organizational skills
- Must be willing and able to lift/push/pull up to 50 lbs. and be willing to seek assistance for anything over 50 lbs. (should not seek to do over 50 lbs. without assistance).
- Must be willing and able to travel 100% of the time upon program completion to LMG remote events

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