

# Broadband Audit & Testing Technician



INCUMBENT: TBD  
REPORTS TO: Vice President of Engineering & Technical Services  
and/or Broadband Field Manager  
LOCATION: United States  
STATUS: Independent Contractor  
DATE: June, 2022

## TO APPLY

Please email a résumé, three references, and a cover letter explaining why you believe you would be a good fit for this position to [HR@connectednation.org](mailto:HR@connectednation.org). Compensation range is approximately \$30.00 – \$35.00 per hour, commensurate with experience and qualifications. Connected Nation is an equal opportunity employer.

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**DESCRIPTION:** The Broadband Audit & Testing Technician conducts outside plant (OSP) audits, key performance indicator (KPI) testing related to Universal Service Administrative Company (USAC) projects, provider outreach (in support of state based broadband mapping projects), targeted field validation work and desktop research for all Connected Nation, Inc. (CN) and Connected Nation Ventures, Inc. (CNV) related projects.

OSP audits require detailed mapping of last-mile wireline infrastructure, and radio frequency (RF) analysis, of assigned site specific projects including, but not limited to, middle-mile and transport fiber, using Esri Field Maps. Such projects may include an emphasis on wide area broadband networks capable of delivering 100/100 Mbps connections, those delivering 25/3 Mbps (the current federal definition of “Broadband”), as well as identification of areas that fall below federal Broadband criteria.

USAC related projects will require the use of a handheld Viavi ONX-580 (or comparable) device to test USAC specified KPIs, either outdoors at the network interface device (NID) or, potentially, indoors at the modem/router.

It is preferred that the Broadband Audit & Testing Technician can immediately sub-contract with, or be paired with, an assistant (meeting CN or CNV approved criteria). Both the Broadband Audit & Testing Technician and assistant must have demonstrated efficiencies operating an all-wheel drive, four-wheel drive (or other comparable motor vehicle).

The assistant may be chosen by CN or CNV or could be subcontracted by the Broadband Audit & Testing Technician at a rate of \$15.00 – \$17.00 per hour. Such driving related expenses may be paid directly by CN or CNV or could be expensed and reimbursed to the Broadband Audit & Testing Technician.

## ESSENTIAL DUTIES AND RESPONSIBILITIES

- Provider outreach, OSP audits, USAC testing and field validation: Research publicly available data sets and sources and strive to collect granular data and information regarding telecommunications and/or Broadband providers. Data collected includes, but is not limited to, details on infrastructure locations, network assets, and consumer feedback on where broadband services start and stop to assist in developing more accurate broadband maps.
- RF analysis and KPI testing: The Broadband Audit & Testing Technician will have a familiarity and proficiency in the use of an AVCOM PSA-37XP, SignalHawk RF equipment, Viavi ONX-580 equipment (or other comparable equipment), or can be immediately trained in the proficient use of such testing equipment.
- Travel to various locations, across the United States, for extended periods of time (commonly starting at, and in excess of, 2-4 week periods of time) to assist with technology assessments, OSP audits, mobile drive testing, KPI performance testing, grant close-out packages, client based technical assistance and/or other related field work (e.g., grant protests), etc.
- Submit telecommunications data to the CN/CNV GeoAnalytics department following standard format and compliance requirements while maintaining accurate records in Salesforce, Esri Field Maps and other related software.
- Perform other duties as assigned.
- Responsibilities are not all inclusive, additional duties may be assigned.

## EDUCATION/EXPERIENCE

- Bachelor's degree in a telecommunications or technical field preferred, but not required.
- At least three years experience in telecommunications data collection and technical field work.

## QUALIFICATIONS

- Must be proficient in the use of Salesforce, Google Earth, Esri Field Maps, Microsoft Excel, Outlook, PowerPoint, and Word.
- Must be familiar with multiple telecommunications-based testing equipment for use in identification, recording and tracking.
- Capable of cultivating strong and collaborative working relationships with telecommunications and Broadband providers, while having the ability to handle sensitive and confidential datasets.
- Strong organizational and communication skills.

- Must be able to work independently and under pressure in a fast-paced and rapidly changing environments and task order changes.
- Extremely organized, disciplined, self-directed, hands-on and process-oriented individual willing to digging into holistic details when necessary.
- Ability to develop field reports that coherently narrate the field test results, completed activities, risks associated with such work as well as the development of “lessons learned” that contribute to the improvement of future activities and methodologies.
- Ability to manage and prioritize multiple tasks.
- Strong work ethic and unquestioned personal and professional integrity.
- High level of commitment to team and company values.
- Attention to detail, establishing priorities and meeting/exceeding deadlines.
- Must be able to meet travel requirements (50% - 70% of assigned tasks).
- Five or more years of experience operating a motor vehicle to include experience driving all-wheel or four-wheel drive vehicles. Must not have record of a suspended or revoked driver’s license within the last three years.
- Proficient in the use of GPS enabled software and equipment.
- Proficient with the use of digital photography devices such as cameras and smart phones that collect date stamped, time stamped and geo-identified assets and locations.
- Valid state driver’s license required.
- Must be at least 21 years of age.

## ESSENTIAL PHYSICAL REQUIREMENTS

- Ability to sit, stand, drive or ride for long periods of time.
- Ability to lift and carry up to 60 lbs.
- Ability to operate CN and CNV issued computer and equipment in office and community settings.

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*This job description in no way states or implies that these are the only duties to be performed by the employee(s) incumbent in this position. Employee(s) will be required to follow any other job-related instructions and to perform any other job-related duties requested by any person authorized to give instructions or assignments. A review of this position has excluded the marginal functions of the position that are incidental to the performance of fundamental job duties. All duties and responsibilities are essential job functions and requirements and are subject to possible modification to reasonably accommodate individuals with disabilities. To perform this job successfully, the incumbent(s) will possess the skills, aptitudes, and abilities to perform each duty proficiently. Some requirements may exclude individuals who pose a direct threat or significant risk to the health or safety of themselves or others. The requirements listed in this document are the minimum levels of knowledge, skills, or abilities. This document does not create an employment contract, implied or otherwise, other than an “at will” relationship.*