



# Eastern Band of Cherokee Indians

## Job Description

<b>Position ID Number:</b>		<b>Last Revised:</b>	01/15/2017
<b>Position Title:</b>	GIS Web Application Developer	<b>Department:</b>	Realty Services
<b>Reports to:</b>	GIS / Surveying Program Manager	<b>Division:</b>	Executive

**Primary Function:** Performs GIS web application development activities in support of the Realty Services, GIS program. Designs, develops, tests, implements and supports web based and or client/server applications that integrate web technologies and mapping applications including mobile GIS applications with responsive design.

**Job Duties and Responsibilities:**

- Codes and develops custom GIS web applications
- Designs, develops, tests, implements and supports Java Script, Python and .Net based code for the automation of daily tasks.
- Works in SQL, JavaScript, Dojo, python and other GIS/ web programming languages
- Documents application code, processes and procedures
- Works closely with other departments and work groups to perform analysis of business functions, prepare documentation, develop requirements and specifications for new systems, and provides recommendations for technical solutions
- Works closely with users to prototype, test, and validate the functionality of developed applications.
- Oversees the installation of hardware, software, and performs technical consulting with users and vendors for package system installations.
- Assists with web administration functions including user rights, maintenance, log analysis and software upgrades
- Troubleshoots, diagnoses, and fixes bugs and malfunctions
- Analyzes, reviews and alters applications to increase operating efficiency, adapt new requirements, and correct errors
- Maintains and supports assigned systems to ensure minimal downtime and loss of service on production systems, including existing GIS mapping applications. Performs coding of enhancements to production systems. Analyzes, reviews, and alters application software to increase operating efficiency, adapt new requirements, and to correct errors. Acts as liaison for support and maintenance for vendor supported package systems.
- Maintains and develops professional skills through ongoing training and career development, including self-study, classroom training, and industry seminars and workshops

**Education /Experience:** Bachelor degree in computer science, geography, plus 4 years progressively responsible experience in GIS applications development; or a minimum of 6 years of progressively responsible GIS applications development experience. Solid understanding of GIS principles such as coordinate systems, spatial relationships, and data sources. Experience using ArcGIS, ArcGIS Server, , HTML, JavaScript, CSS, .NET, Python and GitHub.

- Job Knowledge:** Must demonstrate experienced with 3rd party JavaScript libraries, such as jQuery, Dojo, ExtJS, Bootstrap, Backbone.js, AngularJS, etc. Experience with PHP. Experience with ArcPro, Web AppBuilder for ArcGIS or AppStudio for ArcGIS. Working knowledge of Pip, Flask and Django or other Python libraries. Must be self-motivated and work effectively with teams. Must have an unrestricted, valid North Carolina Driver's license.
- Contact with Others:** Interacts frequently with coworkers, General Public, Tribal Leaders, and other tribal personnel. Has outside contacts with program participants, community members, and agency representatives in the exchange of information and discussions. Nature of contacts requires the use of tact, courtesy and business etiquette to assure the maintenance of a positive working relationship.
- Confidential Data:** Has access to Tribal land records and many other types of Trust and Non-Trust documents, financial data, vendors, personnel files, memos, and financial standing of affairs. Has access to Federal Land Reporting systems. Must be able to obtain Federal Security Clearance. All data must be kept confidential. Must adhere to the non-disclosure/confidentiality agreement of the Tribe in performance of duties. Confidentiality must be maintained at all times, not just on the job.
- Mental/Visual/Physical: Effort** Focused concentration is needed while performing clerical duties. Subject to frequent interruptions, both by phone and in person, which require verbal responses. While in the office, the duties of this job routinely require standing, walking, and sitting, kneeling, reaching, speaking, seeing clearly, and hearing. Must be capable of lifting up to 20 pounds while performing job duties.
- Environment:** Works in a normal business office environment with frequent travel to tribal program locations. Sometimes works in the field mapping and locating parcel boundaries.