Job Title	Senior Application Developer
PVN ID	GS-2507-006918
Category	Research
Location	The GRADUATE CENTER
Department	Center for Urban Research, CUNY Graduate
Status	Full Time
Annual Salary	$85,000.00 - $95,000.00
Hour(s) a Week	35
Closing Date	Aug 31, 2025 (Or Until Filled)

General Description

Since 2006 the Mapping Service at the Center for Urban Research at The Graduate Center / CUNY has developed sophisticated, powerful, and user-friendly web map applications for a diverse set of partner organizations, philanthropic foundations, and CUNY researchers. We seek to hire a Senior Application Developer to continue this work developing interactive applications centered around – though not limited to – maps and related data visualizations.

In this role you will be designing and building robust applications that address important policy and research issues related to demographics (such as the upcoming 2030 Census and subsequent redistricting initiatives), immigration trends, voter patterns, environmental issues, transportation infrastructure, and more. Our applications are primarily online but may also include desktop or mobile applications. You can view links to several current applications plus a description of the Mapping Service at http://www.gc.cuny.edu/urbanresearchmaps.

Our application development work is mainly done in Node.js with open source frameworks such as MapLibre GL JS, Vue.js, and PostGreSQL/PostGIS. Your focus will be developing applications using this and/or similar frameworks, and we are open to alternative options and workflows for new projects. Part of your time will involve maintaining and troubleshooting projects developed using earlier, proprietary technologies such as ArcGIS and SQL Server. Ideally, this position will be a full-time, long-term arrangement. We are open, however, to considering shorter-term, part-time arrangements.

Other Duties

The position may also involve occasional opportunities to help present the Mapping Service's work to potential and/or current partner organizations, at conferences and educational events, and via the Center for Urban Research's outreach materials.

Other duties as assigned.

Qualifications

- Bachelor's Degree
- 3+ years web application development experience
- Expertise with JavaScript frameworks and libraries for interactive web development (including CSS and HTML)
- Expertise with version control using Git/GitHub
- Familiarity with GIS concepts and data structures
- Experience with interactive geospatial frameworks and services such as MapLibre GL JS, Mapbox, Leaflet, and ESRI's suite of applications
- Experience with relational database management software (preferably PostgreSQL)
- Experience with user-centered design
- Familiarity with Internet server architecture (we use Node.js in conjuction with IIS in a Windows environment)
- Interest in developments around artificial intelligence (AI) regarding coding, data analysis and visualization, and mapping applications
- A strong appreciation for urban geographies and urban dynamics
- Understanding of data visualization concepts and techniques