



BARNSTABLE COUNTY JOB DESCRIPTION

Title: Geospatial Developer I	Classification: Cape Cod Commission
Department: Cape Cod Commission	Grade: 9
Reports to: Applications Manager	FLSA Status: Exempt
Effective Date: May 1, 2020	Union Status: Non-represented

Summary

Professional, technical and administrative work planning, creating, and maintaining web-based mapping applications that utilize multiple data types, from multiple sources; all other related work as required.

Essential Functions

The essential functions or duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related, or a logical assignment to the position.

Works collaboratively with a team to create and maintain web-based, data-driven applications. Consults and collaborates with project leads and other senior level staff in developing, designing, coding, testing, verifying and validating, and maintenance of custom geospatial desktop and web-based solutions. Promotes creative problem solving by assisting multi-disciplinary teams in developing effective applications to further the Commission's regional goals and improve public awareness.

Possesses a diverse collection of programming and data management skills. These skills include data management programming languages such as Python; front end development languages: JavaScript; HTML; and CSS; state management libraries; familiarity with server side languages; working knowledge of Docker, CircleCI and AKS; and Familiarity with ESRI ArcMap and ArcGIS Server map server technologies; including ArcGIS Online, ESRI JavaScript API, and ArcPy Python module would be preferred.

Assists with front end web development including the designing, developing, documenting, testing and deployment of web mapping applications. Develops working prototypes and mockups based on existing and proposed requirements. Awareness and attention to detail and format of proper application design.

Recommends suitable layouts and designs for applications.

Performs similar or related work as required, or as situation dictates.

Supervision Received and Exercised

Works under the general direction of the Applications Manager and collaboratively with the GIS Director and other senior and technical staff. Employee functions independently, with work largely self-directed, but regular collaborative conferences are held with the Applications Manager and other senior members of staff. Employee may provide direction to others in areas of expertise and may exercise supervision over employees' work on specific projects in a project management capacity.

Qualifications

Education and Experience

Bachelor's Degree from an accredited college or university in computer science or related field and one or more years of progressively responsible experience in a development role. Experience with programming; understanding of front end technologies such as HTML5, CSS, and JavaScript; familiarity with back end technologies; and working knowledge of Docker, CircleCI and AKS. Experience in the creation and/or



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maintenance of IIS webserver directories and using geospatial platforms such as Leaflet, Mapbox, CartoDB, etc., is desired; or an equivalent combination of education and experience.

Knowledge of: geographic information systems (GIS), information management and a diverse collection of programming and data management skills SQL Server database management and development; JavaScript; jQuery; HTML5; and CSS3; familiarity with back end technologies; working knowledge of Docker, CircleCI and AKS; knowledge and incorporation of Python and ESRI's JavaScript API. Familiarity with ESRI ArcMap and ArcGIS Server technologies also required.

Ability to: manage a complex variety of services and functions; interpret complex technical and scientific information and translate into code to guide informed decision making; plan, organize, analyze problems, identify solutions and make and implement recommendations; establish and maintain effective working relationships with a variety of technical service staff and co-workers; recognize feasible goals and deadlines to accomplish Commission and regional priorities and work cooperatively and collaboratively to support their accomplishment; communicate effectively orally and in writing and to prepare reports; work on and manage multiple projects within the same timeframe.

Skill: writing, analytical, organizational, interpersonal/collaborative communication, computer skills that encompass effective use of word processing, spreadsheet, project management, presentation, mail and Internet browser, graphic/design, and geographic information systems (GIS) software; applying analytical and evaluative methods and techniques and evaluation criteria to issues concerning the efficiency and effectiveness of geospatial and information program effectiveness and operations and skill in applying IT concepts, principles, methods and practices including security principles and methods.

Required Licensing/Certification: A valid U. S. Driver's License

Job Environment

Most work is performed under typical office conditions with moderate noise; occasionally required to attend evening/weekend meetings. The volume of work is sometimes affected by deadlines and other time constraints. Operates a computer and general office equipment; operates an automobile.

Physical Requirements

The physical demands described are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Minimal physical effort required; occasional light physical effort required when conducting field inspections including maneuvering stairs and uneven terrain; may be required to move/transport up to 25 pounds. Position requires the ability to operate a keyboard and general office equipment at efficient speed and view computer screens for an extended period of time. The employee is frequently required to convey highly technical information at meetings with staff and others.

This job description does not constitute an employment agreement between the employer and employee, and is subject to change by the employer, as the needs of the employer and requirements of the job change.

Equal Opportunity/Americans with Disabilities Act Employer