

JOB DESCRIPTION

1044 – IS Engineer, Principal (GIS Developer)

Description:

The San Francisco Public Utilities Commission (SFPUC) is seeking an experienced, outgoing and motivated Principal IS Engineer to provide functional and technical support for Geographics information system. Under general direction of the ITS GIS Program manager, the IS Engineer (GIS Developer) will be responsible for technology solutions and performing all aspects of the maintaining and managing ESRI ArcGIS Enterprise deployment as well as analysis, design, programming, testing, debugging, and deployment of fully functional GIS applications. We approach our work in a manner that is inclusive of environmental and community interests and sustains resources. As a technologist in the Bay Area, you have choices; when you help the City support natural resources in our community, you Choose Purpose.

Essential functions of the position include:

- Provide on-going user and system support, monitoring, system administration and troubleshooting for ArcGIS Enterprise & Geodatabases (ArcSDE)
- Data modeling and Data Migration in SDE
- Maintain Enterprise GIS data using ArcGIS Pro, SDE and ArcGIS Enterprise
- Develop, implement, and support web applications, dashboards, web services and Mobile applications with ESRI SDKs, ESRI application builder and Experience builder.
- Develop, implement, and support web applications and web services for GIS and ETL with C#, .NET 4.0+, JavaScript, Python.
- Develop, Maintain & support FME ETL jobs

Support and develop Geodata science application using Jupyter Notebook, Geo AI.

Develop, maintain and Support Cloud migration (Kubernetes), Utility Network projects.

- Perform project management responsibilities including coordination of project activities among business stakeholders, consultants, and vendors.
- Partner with division GIS on implementation, testing, training and knowledge-transfer of new technologies or changes to existing processes and systems.
- Maintain & support BIM to 3D GIS projects
- Provide ad-hoc data and reporting, using SQL, PL/SQL, Cognos, Jupyter Notebooks
- Thorough understanding of web GIS technologies and experience with ESRI technology stack.
- 10+ years of experience or equivalent proficiency in ESRI technologies (Web/Cloud, Desktop and Mobile)
- Some experience in Utility Network and Data Analysis
- Some proficiency in programming with C#, .NET 4.0+, JavaScript or Python
- Proficient in ESRI ArcGIS Enterprise Architecture

- Excellent written and verbal skills in expressing ideas, policies, and technical issues with sharp business acumen.
- Strong independent work ethic with ability to work well in teams with diverse personalities.
- Excellent written and verbal skills in expressing ideas, policies, and technical issues.
- Plan, implement and maintain upgrades/updates/fixes for core operating systems and their related components, without negative impact to overall application availability and reliability.
- Perform other related duties, as assigned

Required Qualifications for the position include:

- Bachelor's degree in Computer Science or Information Technology-related curriculum.

Desired Qualifications for the position include:

- 3+ Experience in ArcGIS Enterprise and Utility Network
- 4+ years of experience or equivalent proficiency in programming with C#, .NET 4.0+, JavaScript or Python
- Can independently lead and manage software projects and coordinate activities among business stakeholders, consultants and vendors and is well versed in the Agile development methodologies.
- Can facilitate requirements gathering and create technical design documents for system change within a reasonable timeframe.

How to Apply:

Applications for Principal Information Systems Engineer - Applications Specialty are only accepted through an online process.

- Apply using Generic Application for Principal Information Systems Engineer - Applications Specialty
- Visit <https://careers.sf.gov/role/?id=3743990002516346> to begin the application process. Select "Apply Now" at the top of the job ad and follow the instructions on the screen.