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MISSOURI DEPARTMENT OF TRANSPORTATION JOB OPPORTUNITY ANNOUNCEMENT

Date Posted: 02/16/2021
Application Deadline: 03/02/2021
Job Post ID: 13656
Job Title: Geographic Information System Specialist / Intermediate Geographic Information System Specialist / Senior Geographic Information System Specialist
Min Monthly Salary: \$3,308.00 / \$3,675.00 / \$4,088.00
Number Positions: 1
Location: 105 W. Capitol Avenue, Jefferson City, MO
District/Division: Central Office / Transportation Planning Division
Human Resources Contact Number: 573-751-7107

Notice: The deadline to apply for this position is **March 2, 2021, at 11:55 p.m.**

In order to be considered for this position go to [MoDOT Careers](#)

Remote work location and/or teleworking is not available for this position.

General Summary:

--- Geographic Information System Specialist ---

The geographic information system specialist performs routine entry-level activities in the design, implementation, and support of geographic information systems (GIS) applications and databases. Responsibilities are performed under moderate supervision.

--- Intermediate Geographic Information System Specialist ---

The intermediate geographic information system specialist performs varied and moderately complex activities in the design, implementation, and support of geographic information systems (GIS) applications and databases. Responsibilities are performed under moderate supervision.

--- Senior Geographic Information System Specialist ---

The senior geographic information system specialist performs varied and complex activities in the design, implementation, and support of geographic information systems (GIS) applications and databases. Responsibilities are performed under general supervision.

Minimum/Required Qualifications:

--- Geographic Information System Specialist ---

Bachelor's Degree: Geography, Computer Science, Surveying, Geographic Information Systems, or related field

--- Intermediate Geographic Information System Specialist ---

Bachelor's Degree: Geography, Computer Science, Surveying, Geographic Information Systems, or related field

Two years of experience working with geographic information systems, surveying or computer aided design and drafting.

--- Senior Geographic Information System Specialist ---

Bachelor's Degree: Geography, Computer Science, Surveying, Geographic Information Systems, or related field

Four years of experience working with geographic information systems, surveying or computer aided design and drafting.

Supervisory Responsibilities:

--- Geographic Information System Specialist ---

None

--- Intermediate Geographic Information System Specialist ---

None

--- Senior Geographic Information System Specialist ---

None

Special Working Conditions/Job Characteristics:

--- Geographic Information System Specialist ---

Job may require occasional, statewide, overnight travel.

--- Intermediate Geographic Information System Specialist ---

Job may require occasional, statewide, overnight travel.

--- Senior Geographic Information System Specialist ---

Job may require occasional, statewide, overnight travel.

Examples of Work:

--- Geographic Information System Specialist ---

- Create, edit, and update files used to develop state highway maps, district maps, county maps, and a variety of other maps used both internally and externally.
- Creates or integrates updates and edits of the state master roads dataset, including route marking changes, construction changes, and error corrections using a variety of data sources including design plans, intersection log book, aerial photography and other existing maps; edits dataset by manipulating the spatial coordinates and relationships of geographic features (points, lines, and polygons) and associated attributes.
- Writes computer programs to meet specific GIS needs, improve the data entry process for end users, and improve the efficiency of GIS software; runs programs to ensure edits to GIS data are accurate.
- Provides customer service and responds to special requests, including troubleshooting and assisting users with global positioning system and program problems, research and data collection for special requests, and presentations as necessary.
- Extracts graphical data from the map library and processes the data for GIS applications.
- Maintains statewide digital roadway networks.
- Develops, tests, manages and integrates GIS applications designed for specific purposes or tasks.
- Provides technical assistance to department personnel in the capabilities and implementation of GIS; provides technical support for external end users.
- Provides training and technical support to end users.
- Performs other responsibilities as required or assigned.

--- Intermediate Geographic Information System Specialist ---

- Create, edit, and update files used to develop state highway maps, district maps, county maps, and a variety of other maps used both internally and externally.
- Creates or integrates updates and edits of the state master roads dataset, including route marking changes, construction changes, and error corrections using a variety of data sources including design plans, intersection log book, aerial photography and other existing maps; edits dataset by manipulating the spatial coordinates and relationships of geographic features (points, lines, and polygons) and associated attributes.
- Writes computer programs to meet specific GIS needs, improve the data entry process for end users, and improve the efficiency of GIS software; runs programs to ensure edits to GIS data are accurate.
- Provides customer service and responds to special requests, including troubleshooting and assisting users with global positioning system and program problems, research and data collection for special requests, and presentations as necessary.

- Extracts graphical data from the map library and processes the data for GIS applications.
- Maintains statewide digital roadway networks.
- Develops, tests, manages and integrates GIS applications designed for specific purposes or tasks.
- Provides technical assistance to department personnel in the capabilities and implementation of GIS; provides technical support for external end users.
- Provides training and technical support to end users.
- Performs other responsibilities as required or assigned.

--- Senior Geographic Information System Specialist ---

- Create, edit, and update files used to develop state highway maps, district maps, county maps, and a variety of other maps used both internally and externally.
- Creates or integrates updates and edits of the state master roads dataset, including route marking changes, construction changes, and error corrections using a variety of data sources including design plans, intersection log book, aerial photography and other existing maps; edits dataset by manipulating the spatial coordinates and relationships of geographic features (points, lines, and polygons) and associated attributes.
- Provides technical assistance to department personnel in the capabilities and implementation of GIS and transportation management systems (TMS); provides technical support for external end users.
- Writes computer programs to meet specific GIS and TMS needs, improve the data entry process for end users, and improve the efficiency of GIS software; runs programs to ensure edits to GIS data are accurate.
- Provides customer service and responds to special requests, including troubleshooting and assisting users with global positioning system and program problems, research and data collection for special requests, and presentations as necessary.
- Develops, tests, manages and integrates GIS applications designed for specific purposes or tasks.
- Extracts graphical data from the map library and processes the data for GIS applications.
- Maintains statewide digital roadway networks.
- Provides training and technical support to end users.
- Performs other responsibilities as required or assigned.

In order to be considered for this vacancy please go to the Missouri Department of Transportation [Employment Application System \(EAS\)](#) and submit an on-line application. Applications, and if applicable transcripts, must be received by no later than 11:55 pm of the closing date listed on the advertised vacancy.

MoDOT is primarily conducting telephone interviews due to social distancing requirements at this time. For applicants being interviewed who are hearing or speech impaired and need assistance, we will coordinate with the Missouri Relay System.

During the COVID-19 pandemic, MoDOT strictly enforces social distancing, face covering, and other safety requirements to ensure the health and safety of our employees and those who we serve.

Equal Employment Opportunity / Affirmative Action Employer, M/F/D/V

MoDOT does not hire individuals with F-1 OPT visas into full-time or permanent part-time positions and MoDOT does not sponsor applicants for work visas.