MISSOURI DEPARTMENT OF TRANSPORTATION
JOB OPPORTUNITY ANNOUNCEMENT

Date Posted: 07/24/2019
Application Deadline: 08/07/2019
Job Post ID: 11838
Job Title: Geographic Information System Specialist / Intermediate Geographic Information System Specialist / Senior Geographic Information System Specialist
Min Monthly Salary: $3,272.00 / $3,635.00 / $4,044.00
Number Positions: 1
Location: 601 W. Main, Jefferson City, MO
District/Division: Central Office / Design Division
Human Resources Contact Number: 573-751-2923

Notice: The deadline to apply for this position is August 7, 2019, at 11:55 p.m. Interviews will be held on August 15, 2019. This position is located in the Computer Aided Drafting and Design unit of the Design Division and has the primary responsibilities of managing the division’s geospatial data and assisting with the annual aerial acquisition program.

Substitution of experience for the education requirement will be considered.
Waiver of minimum requirements may be considered.
Remote work location and/or teleworking is not available for this position.
This position is eligible for a temporary emergency operations adjustment of $3 to $6 per hour, depending on the area of operation, when handling winter/emergency operations activities.
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Full time maintenance workers, after completion of a six-month probation, can participate in a Registered Apprenticeship Program certified by the U.S. Department of Labor and Veteran’s Affairs (VA) with MoDOT. This consists of on-the-job training, combined with related classroom instruction, while earning wages. Additional benefits may be available through the VA for eligible veterans.

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 ---
- Manages the Design Division's geospatial data, including Light Detection and Ranging (LiDAR), aerial photography and survey, using ESRI Image Server and Bentley ProjectWide.
- Performs the planning and development of aerial acquisition projects. Develops contract documents and provides quality assurance for contract deliverables including aerial photography, control surveys and design grade LiDAR.
- Provides training and technical support to end users.
- Operates and maintains the department's statewide real-time global navigation satellite system (GNSS) network, repairs and replaces equipment.
- Administers contracts for GNSS network users.
- 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.
- 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.
- 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.
• Conducts high-resolution global positioning systems data collection of multiple features utilizing speech enabled technology.
• 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.
• Performs other responsibilities as required or assigned.

--- Intermediate Geographic Information System Specialist ---
• Manages the Design Division's geospatial data, including Light Detection and Ranging (LiDAR), aerial photography and survey, using ESRI Image Server and Bentley ProjectWide.
• Performs the planning and development of aerial acquisition projects. Develops contract documents and provides quality assurance for contract deliverables including aerial photography, control surveys and design grade LiDAR.
• Provides training and technical support to end users.
• Operates and maintains the department's statewide real-time global navigation satellite system (GNSS) network, repairs and replaces equipment.
• Administers contracts for GNSS network users.
• 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.
• 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.
• 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.
• Conducts high-resolution global positioning systems data collection of multiple features utilizing speech enabled technology.
• 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.
• Performs other responsibilities as required or assigned.

--- Senior Geographic Information System Specialist ---
• Manages the Design Division's geospatial data, including Light Detection and Ranging (LiDAR), aerial photography and survey, using ESRI Image Server and Bentley ProjectWide.
• Performs the planning and development of aerial acquisition projects. Develops contract documents and provides quality assurance for contract deliverables including aerial photography, control surveys and design grade LiDAR.
• Provides training and technical support to end users.
• Operates and maintains the department's statewide real-time global navigation satellite system (GNSS) network, repairs and replaces equipment.
• Administers contracts for GNSS network users.
• 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.
- Conducts high-resolution global positioning systems data collection of multiple features utilizing speech enabled technology.
- Maintains statewide digital roadway networks.
- 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.
- 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.

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.