

Closed

**MISSOURI DEPARTMENT OF TRANSPORTATION
JOB OPPORTUNITY ANNOUNCEMENT**

Date Posted: 10/05/2020
Application Deadline: 10/20/2020
Job Post ID: 13193
Job Title: Materials Technician / Intermediate Materials Technician / Senior Materials Technician
Min Monthly Salary: \$2,516.00 / \$2,834.00 / \$3,141.00
Number Positions: 2
Location: 1617 Missouri Boulevard, Jefferson City, MO
District/Division: Central Office / Construction and Materials Division
Human Resources Contact Number: 573-751-2923

Notice: The deadline to apply for this position is October 20, 2020, at 11:55 p.m.

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

General Summary:

--- Materials Technician ---

The materials technician performs semi-skilled technical duties in the sampling, testing, and/or inspection of materials used in highway construction and maintenance projects; responsibilities are performed on location throughout the state and/or at the Central Laboratory. Responsibilities are performed under moderate supervision.

--- Intermediate Materials Technician ---

The intermediate materials technician performs skilled technical duties in the sampling, testing, and/or inspection of materials used in highway construction and maintenance projects; responsibilities are performed on location throughout the state and/or at the Central Laboratory. Responsibilities are performed under moderate supervision.

--- Senior Materials Technician ---

The senior materials technician performs advanced technical duties in the sampling, testing, and/or inspection of materials used in highway construction and maintenance projects; responsibilities are performed on location throughout the state and/or at the Central Laboratory. Responsibilities are performed under general supervision.

Minimum/Required Qualifications:

--- Materials Technician ---

High School Diploma or GED/HiSET, including successful completion of an algebra course for district positions.
Successful completion of a work simulation examination and a medical-physical examination.

--- Intermediate Materials Technician ---

High School Diploma or GED/HiSET, including successful completion of an algebra course for district positions, and two years of experience in technical positions.

OR

Associate's Degree in Civil Engineering Technology or related field.

Successful completion of a work simulation examination and a medical-physical examination.

--- Senior Materials Technician ---

High School Diploma or GED/HiSET, including successful completion of an algebra course for district positions, and four years of experience in technical positions.

OR

Associate's Degree in Civil Engineering Technology or related field and two years of experience in technical positions.

OR

Bachelor's Degree in Civil Engineering Technology or related field.

Successful completion of a work simulation examination and a medical-physical examination.

Supervisory Responsibilities:

--- Materials Technician ---

None

--- Intermediate Materials Technician ---

None

--- Senior Materials Technician ---

None

Special Working Conditions/Job Characteristics:

--- Materials Technician ---

Job is physically demanding and requires prolonged periods of standing and frequent lifting.

Job requires outdoor and/or laboratory work that involves exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment, including (but not limited to) exposure to hazardous chemicals, dust, fumes, hot ovens, power tools, and other equipment.

Job may require occasional, statewide, overnight travel.

Job may require operation of vehicles to plow snow and spread ice control materials.

--- Intermediate Materials Technician ---

Job is physically demanding and requires prolonged periods of standing and frequent lifting.

Job requires outdoor and/or laboratory work that involves exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment, including (but not limited to) exposure to hazardous chemicals, dust, fumes, hot ovens, power tools, and other equipment.

Job may require occasional, statewide, overnight travel.

Job may require operation of vehicles to plow snow and spread ice control materials.

--- Senior Materials Technician ---

Job is physically demanding and requires prolonged periods of standing and frequent lifting.

Job requires outdoor and/or laboratory work that involves exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment, including (but not limited to) exposure to hazardous chemicals, dust, fumes, hot ovens, power tools, and other equipment.

Job may require occasional, statewide, overnight travel.

Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work:

--- Materials Technician ---

- Conducts field sampling and testing of aggregates for gradation and quality; checks quality of aggregates by determining percentages of deleterious material; checks for stockpiling procedures, oversize aggregates, and contamination; determines if aggregates are being produced from approved ledges or sources; may approve or reject material intended for use; and keeps records and reports on inspection rates and aggregates used for each project or for maintenance use.

- Inspects proportioning of materials at concrete plants and calibrates and verifies scales and dispensers at concrete plants; and assists in inspecting plants producing bituminous mixtures.
- Performs laboratory testing of soils, aggregates, cements, bituminous mixtures, new products, or general materials; utilizes computers, electronic systems, and testing equipment for data entry, data collection, analysis, and preparation of laboratory testing reports.
- Performs calculations, reports test results, notifies supervisor of deviations from standards, and maintains records of testing activities.
- Performs duties outlined in the quality systems manuals, including completing competency exam evaluations, verifying results, demonstrating test procedures, and calibrating equipment; assists in quality control/quality assurance reference testing.
- Prepares material samples for testing; and maintains and operates various electronic, mechanical, hydraulic, and pneumatic equipment for physical testing of samples.
- Records sampling and/or testing data in various computer software programs.
- Maintains and cleans laboratory testing equipment and other related items.
- Conducts training for new employees or contractors on state and federal specifications and testing methods.
- Provides technical supervision of geotechnical field subsurface investigations and prepares a boring plan based on the accessibility and information needed; ensures subsurface investigation is adapted to access constraints and subsurface conditions; reviews plans and layout profiles; conducts boring operations with field crews and obtains soil and rock samples for further testing.
- Performs other responsibilities as required or assigned.

--- Intermediate Materials Technician ---

- Performs field sampling and testing or laboratory testing of soils, aggregates, cements, bituminous mixtures, new products, or general materials; utilizes computers, electronic systems, and testing equipment for data entry, data collection, analysis, and preparation of laboratory testing reports.
- Checks quality of aggregates by determining percentages of deleterious material, plasticity index as required, and elongated particles; checks for stockpiling procedures, oversize aggregates, and contamination; determines if aggregates are being produced from approved ledges or sources; approves or rejects material intended for use; prepares aggregate samples for bituminous trial mixes; and keeps records and reports on inspection rates and aggregates used for each project or for maintenance use.
- Inspects production of materials at concrete plants, including calibration and verification of proportioning equipment; samples and/or tests bituminous materials, portland cement, sodium chloride, and liquid calcium chloride.
- Performs calculations, reports test results, notifies supervisor of deviations from standards, and maintains records of testing activities.
- Performs duties outlined in the quality systems manuals, including completing competency exam evaluations, verifying results, demonstrating test procedures, and calibrating equipment; assists in quality control/quality assurance reference testing.
- Prepares material samples for testing; and maintains and operates various electronic, mechanical, hydraulic, and pneumatic equipment for physical testing of samples.
- Records sampling and/or testing data in various computer software programs.
- Maintains and cleans laboratory testing equipment and other related items.
- Conducts training for new employees or contractors on state and federal specifications and testing methods.
- Provides technical supervision of geotechnical field subsurface investigations and prepares a boring plan based on the accessibility and information needed; ensures subsurface investigation is adapted to access constraints and subsurface conditions; reviews plans and layout profiles; conducts boring operations with field crews and obtains soil and rock samples for further testing.
- Performs other responsibilities as required or assigned.

--- Senior Materials Technician ---

- Performs field sampling and testing or laboratory testing of soils, aggregates, cements, bituminous mixtures, new products, or general materials; utilizes computers, electronic systems, and testing equipment for data entry, data collection, analysis, and preparation of laboratory testing reports.
- Checks quality of aggregates by determining percentages of deleterious material, plasticity index as required, and elongated particles; checks for stockpiling procedures, oversize aggregates, and contamination; determines if aggregates are being produced from approved ledges or sources; approves or rejects material intended for use;

prepares aggregate samples for bituminous trial mixes; and keeps records and reports on inspection rates and aggregates used for each project or for maintenance use.

- Inspects production of materials at concrete plants, including calibration and verification of proportioning equipment; samples and/or tests bituminous materials, portland cement, sodium chloride, and liquid calcium chloride.
- Performs calculations, reports test results, notifies supervisor of deviations from standards, and maintains records of testing activities.
- Performs duties outlined in the quality systems manuals, including completing competency exam evaluations, verifying results, demonstrating test procedures, and calibrating equipment; assists in quality control/quality assurance reference testing.
- Prepares material samples for testing; and maintains and operates various electronic, mechanical, hydraulic, and pneumatic equipment for physical testing of samples.
- Records sampling and/or testing data in various computer software programs; performs special sampling and testing on federal aid projects; and completes tabulations on material summary requirements.
- May maintain and clean laboratory testing equipment and other related items as necessary.
- Conducts training for new employees or contractors on state and federal specifications and testing methods.
- Provides technical supervision of geotechnical field subsurface investigations and prepares a boring plan based on the accessibility and information needed; ensures subsurface investigation is adapted to access constraints and subsurface conditions; reviews plans and layout profiles; conducts boring operations with field crews and obtains soil and rock samples for further testing.
- 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.

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.