STATE OF LOUISIANA
invites applications for the position of:

Engineering Technician 2-4

An Equal Opportunity Employer

OPENING DATE: Wed. 06/01/22

CLOSING DATE: Wed. 06/15/22 11:59 PM Central Time (US & Canada)

SALARY: $13.42 - $23.52 hourly
$2,326.00 - $4,077.00 monthly

JOB TYPE: Classified

LOCATION: New Orleans, Louisiana

SUPPLEMENTAL INFORMATION:

The Engineering Technician performs regular inspections of the Southeast Louisiana Flood Protection Authority – East's flood defense system as part of a team of inspectors. This position includes regular communication with contractors, engineers, as well as the public.

As part of a Career Progression Group, vacancies may be filled from this recruitment as a Engineering Technician 2-4 depending on the level of experience of the selected applicant(s). Please refer to the 'Job Specifications' tab located at the top of the LA Careers 'Current Job Opportunities' page of the Civil Service website for specific information on salary ranges, minimum qualifications and job concepts for each level.

No Civil Service test score is required in order to be considered for this vacancy.

To apply for this vacancy, click on the "Apply" link above and complete an electronic application, which can be used for this vacancy as well as future job opportunities. Applicants are responsible for checking the status of their application to determine where they are in the recruitment process. Further status message information is located under the Information section of the Current Job Opportunities page.

Resumes WILL NOT be accepted in lieu of completed education and experience sections on your application. Applications may be rejected if incomplete.

For further information about this vacancy contact:
Madriana Montes
mmontes@floodauthority.org

QUALIFICATIONS:

MINIMUM QUALIFICATIONS:
Possession of a high school diploma or GED plus one year of sub-professional engineering experience.

SUBSTITUTIONS:
Six months of experience in sub-professional engineering, heavy mobile equipment operation, or

mobile equipment maintenance will substitute for the high school diploma or GED.

College training will substitute for the required experience on the basis of thirty semester hours for one year of experience provided that six semester hours of each thirty are in one of these specialized fields: architecture, cartography, chemistry, construction management, construction technology, drafting, engineering, engineering graphics, engineering technology, geography, geology, industrial technology, landscape architecture, math, or physics. **All specialized course work credited must be in the same specialized field. A combination of course work from different fields will not be accepted.**

Full-time training in sub-professional engineering from a trade school or technical institute will substitute for the required experience on a month for month basis.

NOTE:
Any college hours or degree must be from a school accredited by one of the following regional accrediting bodies: the Middle States Commission on Higher Education; the New England Commission of Higher Education; the Higher Learning Commission; the Northwest Commission on Colleges and Universities; the Southern Association of Colleges and Schools; and the Western Association of Schools and Colleges.

JOB CONCEPTS:

Function of Work:
To perform a variety of basic sub professional engineering tasks as defined in the Examples Of Work Section.

Level of Work:
Entry.

Supervision Received:
Close from an Engineering Technician 5, 6, 7, a professional engineer or manager of the agency served.

Supervision Exercised:
None.

Location of Work:
May be used by all state agencies.

Job Distinctions:
Differs from Engineering Technician 1 by the presence of more varied tasks and application of basic knowledge/skills acquired through experience or training.

Differs from Engineering Technician 3 by the continued focus on training and level of supervision received.

EXAMPLES OF WORK:

BRIDGE DESIGN:
Develops straightforward details of basic bridge components requiring limited knowledge of bridge structures. Completes routine engineering documentation with close guidance from higher-level technicians.

Increases overall drafting knowledge and applies skills to moderately difficult math calculations and

bridge plans.

CONTRACT SERVICES:
Reviews letter-size construction plans and/or off-system bridge construction plans and prepares draft bid documents.

Assists in the distribution of construction proposals and plans to prospective bidders by taking orders for such information and working with higher-level technicians in the Works Program to determine license requirements.

Assists with the maintenance of TOPS (Tracking of Projects System) by verifying that information on TOPS is consistent with the information on the contract, proposal, and plan title sheets.

Assists higher-level technicians with assigning project numbers on state funded projects; learns coding and how to assign federally funded project numbers.

Assists higher-level technicians in the preparation of construction proposals by entering and revising data in BIDS. Opens and maintains a record of received construction plans using the work unit's computerized database.

DATA COLLECTION AND ANALYSIS:
Collects and extracts short session traffic volume and vehicle classification field data at permanent sites. Develops a daily work plan to install and remove the recorders from assigned monitoring sites and maintains complete and accurate records of work done and data collected.

Digitizes and creates transportation-related features using field collected data, aerial and satellite imagery and other GIS data sets. Performs accuracy and quality control of data and edits data to produce various maps and graphic products.

DISTRICTS:
Inspects and/or gathers samples of drainage structures, Earthwork, base course, asphaltic concrete, PCC and other construction materials. Checks construction work for progress on contract plans and specifications. Completes all paperwork necessary for sampling and testing.

Increases familiarity and knowledge of Department procedures, policies, standards and specifications in order to process construction-related documents such as partial and final estimates; assists higher-level technicians in a Project Engineer's office engaged in these tasks.

Assists more senior technicians in conducting bridge inspections; performs simple mathematical computations and measurements.

Measures and computes simple areas of volumes for estimates of pay quantities. Prepares daily work diaries or field book entries.

Drafts plan sheets, calculates quantities and inputs information into BIDS program. Plots and drafts engineering/surveying drawings using personal computer and drafting software. Calculates quantities as needed to complete drawings.

Serves as rod-person/prism person in land survey crew. Serves as level instrument man and total station/data collector operator in survey crew. Loads/unloads, cleans and maintains survey equipment. Reduces, calculates and processes survey data.

Conducts traffic counts, speed studies and general data collection; compiles and presents data in a workable format.

Assists with entering data in an automated computer system and maintaining laboratory sample tracking systems. Learns basic technical terminology on the sampling of construction and

maintenance materials, and operation of a profilograph; develops computer software and writing skills. Assists with interpretation of profilograph data to determine ride ability of construction projects.

Assists with data collection and compiling information necessary for a District Laboratory Engineer to recommend design considerations on district construction projects.

LOCATION AND SURVEY:
Interprets aerial photographs by using stereoscope and stero-meter to perform compilations and extract data.

Calculates actual scale and altitude of aerial photography.

Reviews designs, cross-sections, survey plots, final ink drawings, and computer drawings for compliance with standards.

Learns how to use the total station and prism pole.

MAINTENANCE:
Uses basic computer skills in the processing of bridge reports from District Headquarters.

Uses the inventory and inspection database system for the in-service bridges on and off the state system.

MANAGEMENT SYSTEMS:
Reviews condition and inventory data of pavements and bridges; reports problems to lead worker.

Maintains database files to summarize data reviews and delivers quality reports on data collection to the lead worker.

MATERIALS TESTING:
Prepares samples and performs routine testing to determine material properties such as compressive strengths, tensile strengths, absorption, unit weights, viscosities, moisture contents, etc. on materials for quality assurance and source approvals.

Reviews sample identification forms that accompany samples for adequacy and completeness.

Performs basic tasks such as sample extraction, installing casing, attaching and breakdown of drill systems, and slurry preparation for sealing boreholes.

Assists higher-level technicians in setting up equipment for drilling and in-situ testing.

Perform standard calibration procedures on nuclear density gauges, tensile and compression test equipment, laboratory scales and balances, pavement smoothness measurement devices and other testing equipment to assure compliance with state and national standards.

Analyzes test data for completeness prior to entry into automated testing system.

PUBLIC WORKS AND WATER RESOURCES:
Assists in preparing Advisory Permit responses to government agencies that grant permits.

Prepares correspondence from the Water Resources Permit Advisory Unit for mailing.

Assists in maintaining Permit Records by means of manual filing and Automated Document Management.

Assists with water dam safety inspections, well registration, licensing forms, and data

collection/input. Assists in the review of requests for right-of-way submitted by the U.S. Army Corps of Engineers.

RESEARCH:
Performs more complicated engineering research tests in area of expertise under direct supervision of lead worker/engineer supervisor team to support specific research tasks and studies.

ROAD DESIGN:
Develops routine details of basic road plans with limited knowledge. Completes routine engineering documentation with close guidance from senior technicians.

Increases overall drafting knowledge and applies skills to moderately difficult math calculations and road plans.

TRAFFIC ENGINEERING AND SERVICES:
Uses CADD software to create drawings; plots and drafts engineering/surveying drawings using personal computer and drafting software.

Conducts traffic counts, speed studies and general data collection; compiles and presents data in a workable format.

Performs basic testing procedures and operation of testing equipment for quality assurance testing of construction and maintenance materials such as sign sheeting and pavement markings. Performs sampling procedures for testing traffic marking and sign sheeting materials.

TRANSPORTATION PLANNING AND SAFETY:
Prepares computerized Crash Data Reports requested from DOTD engineers, technicians, attorneys, Federal Highway Administration officials and/or other state agencies.

Reviews Police Crash reports sent to DOTD and marks the reports for the location of the crash.

APPLICATIONS MAY BE FILED ONLINE AT:
http://agency.governmentjobs.com/louisiana/default.cfm

Job #157213
ENGINEERING TECHNICIAN 2-4
CD

OUR OFFICE IS LOCATED AT:
For agency contact information, please refer to
the supplemental information above.
Louisiana State Civil Service, LA 70802
(866) 783-5462
jobs@la.gov

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Engineering Technician 2-4 Supplemental Questionnaire

* 1. Do you possess and maintain a valid driver's license?

❑ Yes ❑ No

* 2. Do you have experience with tailoring and operating boats?

❑ Yes ❑ No

* 3. What are your career interests?

* Required Question