

EMPLOYMENT NOTIFICATION No. 2/2018

Andhra Pradesh Capital Region Development Authority: Vijayawada

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Rc.No. HR/201/2018, Dt. 02.02.2018

Notification is hereby issued for the following positions in APCRDA, Vijayawada on contract basis.

Applications are invited from the eligible candidates for the following posts to work on contract basis for an initial period for one year extendable up to next one year.

S. N o.	Division	Name Of the Position	No. Of. Posts	Educational qualification	Experience in relevant field (in years)
1	Urban Services & Infra	Senior Structural Engineer	1	M. Tech Structures	10 years in Design and Execution of Complicated & Multi-storeyed towers, buildings, Factories & Industrial Buildings
2		Senior Power Engineer	1	M. Tech Electrical & Power Engineering	10 years in Electrical Power distribution net works
3.		Senior Water & Sewerage Engineer	1	M. Tech, Environmental or Water Resources Engineering	10 years in Water and Sewerage Networks

Online application and further details are available in "Careers Tab" in the website www.crda.ap.gov.in. Only online applications are accepted. The online applications can be submitted from ~~03~~ 02.2018 to ~~14~~ 02.2018

Date: 02.02.2018
Place: Vijayawada


Commissioner,
APCRDA, Vijayawada.



Job Description for the Post of Senior Structural Engineer

Division	Post Name	No of posts	Educational Qualification	Relevant Exp.
Urban Services and Infrastructure	Senior Structural Engineer	1	M. Tech Structures	10 years

SUMMARY:

Andhra Pradesh Capital Region Development Authority is established for the purpose of Planning, Co-ordination, Execution, Supervision, Financing, Funding and for Promoting and securing the Planned Development of the Capital Region and Capital City Area for the State of Andhra Pradesh.

Tasks:

Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems.

Structural engineers design structures to withstand stresses and pressures imposed through environmental conditions and human use. They also examine existing buildings and structures to test if they are structurally sound and still fit for purpose.

Working in close partnership with architects and other professional engineers they help to design most structures, including houses, hospitals, office blocks, bridges, oil rigs, ships and aircraft. It is the structural engineer's responsibility to choose the appropriate materials, such as concrete, steel, timber and masonry, to meet design specifications and they are often involved in inspecting the work and advising contractors.

Key Responsibilities:

-) Analyse configurations of the basic structural components of a building or other structure;
-) Calculate the pressures, stresses and strains that each component, such as a beam or lintel, will experience from other parts of the structure due to human use or environmental pressures such as weather or earthquakes;
-) Consider the strength of various materials, e.g. timber, concrete, steel and brick, to see how their inclusion may necessitate a change of structural design;
-) Liaise with other designers, including architects, to agree on safe designs and their fit with the aesthetic concept of the construction;
-) Examine structures at risk of collapse and advising how to improve their structural integrity, such as recommending removal or repair of defective parts or rebuilding the entire structure;
-) Make drawings, specifications and computer models of structures for building contractors;
-) Work with geotechnical engineers to investigate ground conditions and analyse results of soil sample and in-situ tests;
-) Liaise with construction contractors to ensure that newly erected buildings are structurally sound;
-) Use computers and computer-aided design (CAD) technology for simulation purposes.

Work Experience:

The candidate should have tendered 5 years intensified designing experience after possession of Post-Graduation degree in (Structures) in a reputed civil design organization and should be capable in designing and execution of various civil structures.

-) Must have previous experience leading the delivery of work packages on large scale road construction, bulk earthworks and civil construction projects

-) Provide structural engineering technical input and advice for the design and documentation phases of buildings structures projects
-) Assist with ensuring plant, equipment, human resources and subcontractors are utilised efficiently and effectively to maximise productivity and achieve successful completion of projects within budget and time allocation,
-) Delivering projects across various types of structures (concrete / steel / timber) within the residential / commercial / industrial / institutional sectors

Scope of Work: Should work in Urban Services and Infrastructure unit of APCRDA for designing and execution of all unearned structural components and salient features connected to Buildings/ Multi-storied towers Roads / Culverts / Bridges/ Ruining sewage pipe lines / STP's / Filter plants/ Storm water drains / Canal network / Hydraulic structures/factories/industrial Buildings.

Education: 4 year graduate study in Civil Engineering and Masters in Structural Engineering

Competencies required

Knowledge –

-) **Engineering and Technology** — Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.
-) **Building and Construction** — Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.
-) **Management of Material Resources** — Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.
-) **Perceptual Speed** — The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.
-) **Evaluating Information to Determine Compliance with Standards** — Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.
-) **Inspecting Equipment, Structures, or Material** — Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.

Skill Sets:

-) Design & field experience in usage of State of Art soft wares for analysis & designing
-) Complicated & Multi-storeyed towers and buildings, Factories & Industrial Buildings

Abilities:

-) Capable for handling all the construction projects in designing and execution.
-) Design & field experience in usage of State of Art soft wares for analysis & designing

Date and location of joining & Location: Immediate joining & Vijayawada

JOB DESCRIPTION FOR THE POST OF SENIOR POWER ENGINEER

Division	Post Name	No of posts	Educational Qualification	Relevant Exp.
Urban Services and Infrastructure	Senior Power Engineer	1	M. Tech Electrical & Power engineering	10 years

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Tasks:

Electrical & Power engineers experienced in design, develop and maintain power, electrical control systems and components to their respective required specifications. Design ensuring the primary requisites.

-) Design Electrical engineers are involved in projects from the concept and detail of the design, through to implementation, testing and handover. They may be involved in maintenance programmes.
-) As well as having technical knowledge, electrical engineers need to be able to project manage and multitask. They also need to have commercial awareness. Additional attributes, such as team leadership or management skills, are required as careers progress.

Key Responsibilities:

-) Capital city Power distribution and Transmission networks
-) Responsible for preparing electrical designs for large-scale buildings/ township projects
-) Review product design for compliance with engineering principles, standards, government regulations and customer contract requirements
-) Evaluates electrical systems, products, components, and applications by designing and conducting research programs; applying knowledge of electricity and materials.
-) Develops electrical products by studying customer requirements; researching and testing manufacturing and assembly methods and materials.
-) Testing and ensuring product quality by designing electrical testing methods; testing finished products and system capabilities.
-) Prepares product reports by collecting, analysing, and summarizing information and trends.
-) Provides engineering information by answering questions and requests.
-) Maintains product and the organization reputation by complying with federal and state regulations.
-) Keeps equipment operational by following manufacturer's instructions and established procedures; requesting repair service.
-) Maintains professional and technical knowledge by attending educational workshops; reviewing professional publications; establishing personal networks; participating in professional societies.

Work Experience:

The candidate should have tendered 5 years intensifies working experience in any reputed Electrical firm duly associated with the scope of work pertaining to Design & Electrical systems, calculations, all Electrical ancillary items, determination and placement & Electrical quakes, DCB's etc.,

The selected candidate should work under Electrical Design unit for designing all Electrical loads carrier, appliances, cables, Transformers, busbars, U.G.Cables, different types of Electrical fixtures & fittings etc., and required for erecting of electrical systems from substantial to user groups.

The candidate should have well experience and acquaintance with all latest and time to time developments of technology, various appliances and its uses and limitations in all connected fields to ensure best working designs and to meet the requirements at economical standards.

Education:

4 year graduate study in Electrical Engineering/ Electrical & Electronic Engineering and Masters in Electrical Engineering, Power Engineering or relevant qualification

Competencies required

Knowledge –

-) Design of high voltage electrical substations including physical substation, protection and control design.
-) Experience and knowledge in equipment Automation and PLC's, Six sigma
-) Exposure to Reliability Maintenance Engineering
-) Deep understanding of preventive maintenance procedures and methods.
-) Experience using programmable logic controllers and circuit board layouts
-) Understanding and application of Earned Value Management (EVM)
-) Ability to prepare relay setting for numerical relays and to perform ASPEN.
-) Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment — Providing documentation, detailed instructions, drawings, or specifications to tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.

Skills and Abilities:

-) Electrical Power distribution net works
-) Transmission, Substations and Power Utility & Experience of using State of the Art Software for analysis on Power Distribution Networks

Date and location of joining & Location: Immediate joining & Vijayawada

JOB DESCRIPTION FOR THE POST OF SENIOR WATER & SEWERAGE ENGINEER

Division	Post Name	No of posts	Educational Qualification	Relevant Exp.
Urban Services and Infrastructure	Senior Water & Sewerage Engineer	1	M. Tech, environmental or Water Resources engineering	10 years

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Ensures that citizens are provided with a continuous supply of clean, uncontaminated water for drinking, Living, and recreational purposes. Water engineers not only design water management systems, but often oversee the construction and maintenance of these systems as well. They demonstrate a genuine knowledge and interest of the water industry and environmental issues.

Design or oversee projects involving provision of potable water, disposal of waste water and sewage or prevention of flood-related damage. Prepare environmental documentation for water resources, regulatory program compliance, data management and analysis, and field work. Perform hydraulic modelling and pipeline design.

Key Responsibilities:

-) Water Supply Networks, Sewerage Networks in Capital city
-) Develop plans for new water resources or water efficiency programs.
-) Design water distribution systems for potable or non-potable water.
-) Conduct water quality studies to identify and characterize water pollutant treatments.
-) Gather and analyse water use data to forecast water demand.
-) Write technical reports or publications related to water resources development or water use efficiency.
-) Analyse and recommend sludge treatment or disposal methods. Identify design alternatives for the development of new water resources.
-) Perform mathematical modelling of underground or surface water resources, such as floodplains, ocean coastlines, streams, rivers, or wetlands.
-) Perform hydrological analyses, using three-dimensional simulation software, to model the movement of water or forecast the dispersion of chemical pollutants in the water supply.
-) Perform hydraulic analyses of water supply systems or water distribution networks to model flow characteristics, test for pressure losses, or to identify opportunities to mitigate risks and improve operational efficiency.
-) Design pumping systems, pumping stations, pipelines, force mains, or sewers for the collection of wastewater.
-) Design domestic or industrial water or wastewater treatment plants, including advanced facilities with sequencing batch reactors (SBR), membranes, lift stations, headwork's, surge overflow basins, ultraviolet disinfection systems, aerobic digesters, sludge lagoons, or control buildings.

Work Experience:

Specific duties include: concept planning, pre- design and final design of water and wastewater infrastructure projects, including gravity sewers and force mains, water transmission pipelines and mains, reservoirs and pump stations; hydraulic modelling of gravity and pressure infrastructure systems, support permitting efforts, utility and SUE identification, coordination

and mitigation, prepare design calculations, specifications and plans; develop and prepare technical memoranda, reports and field reports to support project design efforts.

Education:

4 year graduate study in civil engineering and Masters in Environmental Engineering/Water Resource engineering / Public Health Engineering or equivalent

Competencies required

Knowledge: Knowledge and Experience in usage of the State of the Art Soft wares / Modelling tools for Water Supply & Sewerage Networks and organization skills

Skills & Abilities –

-) Monitoring - Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
-) Management of Personnel Resources - Motivating, developing, and directing people as they work, identifying the best people for the job.
-) Management of Material Resources - Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.

Date and location of joining & Location: Immediate joining & Vijayawada