

EMPLOYMENT NOTIFICATION No. 04 /2018

Andhra Pradesh Capital Region Development Authority:Vijayawada

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Rc. No. CRDA-HR/1441/2018, Dt.21.04.2018

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 a period of One year.

S No	Post Name	No. of posts	Education Qualification	Relevant Exp.in years
1	Additional Director – Information Systems	1	M.E/ M. Tech in Computer Science/ Information Technology/ Electronics or Masters in Computer Applications	12+ years' experience in application software development, IT Infrastructure management and website management etc.
2	Team Leader- Application support	1	M.E/ M. Tech in Computer Science/ Information Technology/ Electronics or Masters in Computer Applications	8+ years' experience in application software development for Office Management, Finance, HR and Engineering related applications
3	Additional Director-GIS	1	M.E/ M. Tech in Remote Sensing/GIS after B.E/B. Tech in civil engineering/ Geo Informatics/Computer Sciences/Electronics	12+ years' experience in spatial data maintenance and dissemination, end-user support and the generation of maps and other GIS reports and information products, GIS related projects and urban planning applications
4	GIS Database Administrator	1	M.E/ M. Tech in Remote Sensing/GIS after B.E/B. Tech in civil engineering/ Geo Informatics/Computer Sciences/Electronics with experience in GIS related Projects in Urban Applications	10+ years' experience in spatial Database administration, Daily Backups, Spatial Database integration with Wengis Applications
5.	Data Scientist	1	M.E / M. Tech or B.E/B. Tech in Information Technology/Computer engineering/Computer Science/Computer Technology/Electronics/ Electronics and communications or Masters in Computer Applications	8+ years' experience in Electronic Data Processing work including actual programming, Big Data analytics and data management

Online application is available in the website www.crda.ap.gov.in. in careers tab. Only online applications are accepted. Online applications can be submitted from 22.04.2018 to 06.05.2018

For further details and competencies required please visit the web site www.crda.ap.gov.in

Sd/- Commissioner,
APCRDA, Vijayawada.

Date: 21.04.2018

Place: Vijayawada.

JOB DESCRIPTION FOR VARIOUS POSITIONS IN INFORMATION SYSTEMS DIVISION

S No	Section	Post Name	No. of posts	Education Qualification	Exp.
1	Information Systems	Additional Director – Information Systems	1	M.E. /M. Tech in Computer Sciences/ Information Technology /Electronics or Masters in Computer Applications	12
2		Team Leader-Application support	1	M.E. /M. Tech in Computer Sciences/ Information Technology /Electronics or Masters in Computer Applications	8

SUMMARY:

Andhra Pradesh Capital Region Development Authority (APCRDA) was set up by APCRDA Act 2014, as the nodal agency responsible 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 and for managing and supervising urban services in the New Capital Area and for the matters ancillary thereto.

Additional Director, Information Systems shall be responsible for activities in Information Systems division such as Application Software Development, IT Infrastructure management and APCRDA website Management related responsibilities.

He/ She shall work under the overall supervision and direction of the Director, Information systems division.

Team Leader Application Support shall report to Additional Director, Information Systems and shall be responsible for Application Software development for Office Management, HR, Finance related application.

The above posts are temporary and will be filled on contract basis for a minimum period of 1 year initially and may be extendable up to next two years' subject to exigencies of work.

KEY RESPONSIBILITIES:

- Develop SRS for new applications.
- Prepare scope of work for new projects.
- Provide necessary support to the Director (Information Systems) in Preparation and implementation of IT policy for APCRDA.
- Review project plans to plan and coordinate project activity.
- Manage backup, security and user help systems.
- Develop and interpret organizational goals, policies, and procedures.
- Develop computer information resources, develop policies for data security and control, strategic computing, and disaster recovery.
- Consult with users, management, vendors, and Technical Support Teams to assess computing needs and system requirements.
- Stay abreast of advances in technology.
- Meet with department heads, managers, supervisors, vendors, and others, to solicit cooperation and resolve problems.
- Provide users with technical support for computer problems.
- Recruit, hire, train and supervise staff, or participate in staffing decisions.
- Evaluate data processing proposals to assess project feasibility and requirements

WORK EXPERIENCE:

1. 12+ years working experience in relevant field for the post of Additional Director, IS
2. 8 years' relevant experience for the post of Team Leader Application Support

COMPETENCIES REQUIRED:

KNOWLEDGE:

- Computers and Electronics, Geography, English Language, Mathematics, Design, Engineering and Technology, Customer and Personal Service

SKILLS:

- Critical Thinking, Reading Comprehension, Complex Problem Solving, Speaking, Active Learning, Judgement and Decision Making, Active Listening, Mathematics, Writing and Coordination
- Programming skills
- Database Management Skills
- IT Infrastructure Management Skills

ABILITIES:

- Inductive Reasoning, Near Vision, Deductive Reasoning, Written Comprehension, flexibility of closure, Information Ordering, Oral Expression, Problem Sensitivity, Visualization and Category Flexibility

TOOLS AND TECHNOLOGY**TOOLS:**

- Laser Printers, Notebook computers, Photocopiers, Plotter Printers and Scanners and all relevant Tools
- Computer servers- File Servers, Mid-range computers, Netware Servers, Web Servers
- High End computer Servers- work Stations
- Network interface cards — Network interface cards NIC
- Punches or nail sets or drifts — Punch down tools
- Teleconference equipment — Teleconferencing equipment

TECHNOLOGY:

- Application Development environment software — C, Java; K2 Business Process Automation; Microsoft Visual Basic; Progress Open Edge ABL
- Enterprise resource planning ERP software — In for ERP Baan; Microsoft Dynamics AX; Microsoft Dynamics NAV; Oracle JD Edwards One World, SAP
- Object or component oriented development software — Borland Paradox; C++; Microsoft SQL Server Reporting Services SSRS; Practical extraction and reporting language Perl
- Web platform development software — Hypertext markup language HTML; JavaScript; Progress Web Speed Workshop; Ruby on Rails
- Operating Systems – Microsoft Windows Server 2012
- RDBMS - Oracle, MS SQL Server, PostgreSQL
- Other relevant tools and technologies for IT Infrastructure & Network Management

DATE OF JOINING:

- Immediate Joining

LOCATION:

- Vijayawada

SALARY RANGE:

- Negotiable

JOB DESCRIPTION for GIS Section

S No	Section	Post Name	No. of posts	Education Qualification	Exp.
1	Geographic Information system	Additional Director-GIS	1	M.E./M. Tech in Remote Sensing /GIS after B.E/B/Tech in civil Engineering/Geo Informatics/Computer Sciences/Electronics with experience in GIS related projects in Urban Planning Applications	12
2		GIS Database Administrator	1	M.E. M. Tech in Remote Sensing /GIS after B.E/B/Tech in civil Engineering/Geo Informatics/Computer Sciences/Electronics with experience in GIS related projects and in GIs Database administration	10

SUMMARY: Andhra Pradesh Capital Region Development Authority (APCRDA) was set up by APCRDA Act 2014, as the nodal agency responsible 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 and for managing and supervising urban services in the New Capital Area and for the matters ancillary thereto.

Additional Director, GIS shall be reporting to the Director Information Systems, the GIS Additional Director will direct, supervise and monitor the ongoing maintenance and dissemination of data and applications in the GIS environment and work with various departments and divisions to ensure that their needs for GIS Information are met on a day to day basis.

GIS Database Administrator shall be reporting to the Additional Director, GIS and shall be responsible for Spatial Database Administration, Daily Backups, Spatial database integration with WenGIS applications.

The above posts are temporary and will be filled on contract basis for a minimum period of 1 year initially and may be extendable up to next two years' subject to exigencies of work.

RESPONSIBILITIES:

- He/she shall be responsible for overall direction, supervision of entire GIS related functions.
- Verification of Data acquired from various sources like SOI, NRSC, APSAC etc., and preparation of base maps.
- Creation of Spatial database and Spatial Database management.
- Analysis of Spatial data and preparation of Thematic maps as per the needs of stakeholders' departments in APCRDA such as Planning, Development Control, Estates, Lands, Economic Development, Urban Forestry & Landscaping etc.,
- He/she shall work as a Group Leader for entire GIS Team working in APCRDA.
- Responsible for the on-going spatial data maintenance and dissemination, end-user support and the generation of maps and other GIS reports and information products.
- Provide technical expertise related specifically to Asset management, Land Management etc.,
- He/ She shall oversee the functions of GIS team such as preparation of Master Plans, creation of LPS Layouts, Allocation of lands to various organization and preparation of thematic maps from the existing spatial data.
- Compiling and organizing GIS data from maps, databases and other sources; collection of data in the field using Differential Global Positioning System (DGPS).
- Control of units of measurements in the maps, collection and conversion of mapping resources and data.
- Daily input and editing of capital city and Capital Region infrastructure; Conduct programmatic and manual analysis and create reports and thematic maps on the data within the GIS; conversion, import and export data in and out of the GIS system.
- He/ She shall direct the preparation of regular status reports, highlighting GIS issues requiring attention.
- He/ She shall ensure that quality assurance on new or revised data conforms to standards laid out in the Geodatabase, or any other applicable standard or policy; Create and document procedures and metadata definitions.
- GIS Vendor Management

TASKS:

- Design or prepare graphic representations of Geographic Information Systems (GIS) data, using GIS hardware or software applications.
- Analyze Geographic Information Systems (GIS) data to identify spatial relationships or display results of analyses, using maps, graphs, or tabular data.

- Maintain or modify existing Geographic Information Systems (GIS) databases.
- Enter data into Geographic Information Systems (GIS) databases, using techniques such as coordinate geometry, keyboard entry of tabular data, manual digitizing of maps, scanning or automatic conversion to vectors, or conversion of other sources of digital data.
- Review existing or incoming data for currency, accuracy, usefulness, quality, or completeness of documentation.
- Perform geospatial data building, modelling, or analysis, using advanced spatial analysis, data manipulation, or cartography software.
- Design or coordinate the development of integrated Geographic Information Systems (GIS) spatial or non-spatial databases.
- Select cartographic elements needed for effective presentation of information.
- Provide technical support regarding the maintenance, development, or operation of Geographic Information Systems (GIS) databases, equipment, or applications. Interpretation of Satellite Imageries, Drone Imageries, Aerial Photos, Ortho photographs.
- Classification of Satellite Imageries for preparation of Land Use maps.

SPECIAL SKILLS:

- Experience in analyzing spatial data in an urban planning environment and translating Organization requirements into appropriate GIS reports and thematic maps.
- Knowledge of modern component-based GIS tools and methodology for urban and utility GIS use cases, Knowledge of SQL Databases and ArcGIS Enterprise Server is an added advantage.
- Strong organizational, time management and interpersonal and Team Management skills.

COMPETENCIES REQUIRED:

- **KNOWLEDGE:** Computers and Electronics, Geography, English Language, Mathematics, Design, Engineering and Technology, Customer and Personal Service
- **SKILLS:** Critical Thinking, Reading Comprehension, Complex Problem Solving, Speaking, Active Learning, Judgement and Decision Making, Active Listening, Mathematics, Writing and Coordination of GIS Data Analysis and Generation of Thematic maps
- **ABILITIES:** Inductive Reasoning, Near Vision, Deductive Reasoning, Written Comprehension, flexibility of closure, Information Ordering, Oral Expression, Problem Sensitivity, Visualization and Category Flexibility

TOOLS AND TECHNOLOGY

- **TOOLS:** Laser Printers, Notebook computers, Photocopiers, Plotter Printers and Scanners and all relevant Tools
- **TECHNOLOGY:**
 - ✓ **GIS SOFTWARE:** — ESRI ArcGIS Desktop 10.5 and above versions with knowledge in ArcGIS Extension like Spatial Analyst, Network Analyst, 3D Analyst, Geo Statistical Analyst.
 - ✓ **CAD Software:** AutoCAD 2017 and above versions.
 - ✓ **RDBMS:** Postgre SQL, MS SQL Server, Oracle, DB2
 - ✓ **DEVELOPMENT ENVIRONMENT:** Python, Microsoft .NET, Java
 - ✓ **MAP CREATION SOFTWARE:** ESRI ArcGIS Desktop 10.5 and above versions
 - ✓ **WebGIS Software:** ESRI ArcGIS Enterprise Server 10.5 and above versions
 - ✓ MS Office - Word, Excel, Power Point, MS Access, MS Project etc.

EXPERIENCE:

- **Additional Director (GIS) :**
 1. 12 years of relevant experience in GIS Data acquisition, GIS database creation, GIS Application Development, GIS Database Management and Thematic Maps generation for urban infrastructure mapping projects.
 2. Usage of ESRI ArcGIS Desktop 10.5, ArcGIS Server 10.5, AutoCAD 2017 and DGPS Technology.
 3. Usage of PostgreSQL / MS SQL Server / Oracle.
- **GIS Database Administrator:**
 1. 8 years of relevant experience in creation and maintenance of GIS database.
 2. Usage of ESRI ArcGIS Desktop 10.5, PostgreSQL / MS SQL Server / Oracle.
- **LOCATION:** VIJAYAWADA: **DATE OF JOINING:** Immediate Joining : **SALARY RANGE:** Negotiable

JOB DESCRIPTION FOR THE POST OF ELECTRONIC DATA PROCESSING MANAGER/ DATA SCIENTIST

No. of Positions: 01

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While discharging its functions data generated by different departments i.e., Planning, Urban Services and Infrastructure, Estates, Administration, Finance and Accounts etc. of APCRDA is to be processed and analyzed and secured in a right manner. The data generated must be with good quality and assurance, enabling information sharing and fostering data reuse by minimizing data redundancy.

Data Processing Officer is responsible for the data collection, processing, analysis and safe securing the data for future purposes.

The posts are temporary and will be filled on contract basis for a minimum period of 1 year initially and extendable up to next two years' subject to exigencies of work.

KEY RESPONSIBILITIES: :

- Assistance in the design, development and implementation of information systems and Data bases, Operations and analysis thereon.
- Including assistance to system analysis programming, and data organisation, data collection, collation, validation, coding, processing and maintenance of all forms of data including alpha-numerical, textual graphic, voice and optical.
- Operation of any type of EDP machine/ computer/ computer based on-line or real time systems/ computer network bases systems, etc.
- Review Existing or incoming data for currency accuracy usefulness, quality or completeness of documentation.

WORK EXPERIENCE:

- 10 +years' experience in Electronic Data Processing work including experience of actual programming
- Must have working experience in Data Processing, Data Analytics, Data coding, Data Streamlining and Data Reporting, Report generation.
- Working experience with Government (State/Central), PSUs, and MNCs working on large scale infrastructure creation and planning is preferable.

EDUCATION:

- M.E/ M. Tech or BE / B. Tech in Information Technology/ Computer Engineering/ Computer Science/ Computer Technology/Electronics/Electronics and Communication or Masters in computer Applications with two years' experience in Electronic Data Processing work including experience of actual programming

COMPETENCIES REQUIRED:

- **KNOWLEDGE:** Computers and Electronics, Geography, English Language, Mathematics, Design, Engineering and Technology, Customer and Personal Service and Knowledge in Big Data Analytics
- **SKILLS:** Critical Thinking, Reading Comprehension, Complex Problem Solving, Speaking, Active Learning, Judgement and Decision Making, Active Listening, Mathematics, Writing and Coordination, Programming Skills, Data Base management and Data analysis.
- **ABILITIES:** Inductive Reasoning, Near Vision, Deductive Reasoning, Written Comprehension, flexibility of closure, Information Ordering, Oral Expression, Problem Sensitivity, Visualization and Category Flexibility

TOOLS AND TECHNOLOGY

- **TOOLS:** Laser Printers, Notebook computers, Photocopiers, Plotter Printers and Scanners and all relevant Tools

- **TECHNOLOGY:** Analytical or scientific software, Data base user interface and query software, Development environment software, Map creation software, Object or component oriented development software **and** MS Office, Excel, spread sheet, SQL/Non SQL Programming
- **DATE OF JOINING:** Immediate Joining
- **LOCATION:** Vijayawada
- **SALARY RANGE:** Negotiable
- **CONTRACT PERIOD:** One Year and Extendable up to next Two Years