

**EMPLOYMENT NOTIFICATION No.02/2019**

**Andhra Pradesh Capital Region Development Authority: Vijayawada**

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**Rc. No. CRDA-HR/4250/2018, Dt.10.01.2019**

Notification is hereby issued for the following positions in Planning Division of APCRDA, Vijayawada on Contract basis. Online applications are invited from the eligible candidates to work on Contract basis for a period of One year.

Post name	No. of posts	Education Qualification and Relevant Exp.in years
GIS Specialist	02	• B. Tech/B. E in Remote Sensing and 5 years of relevant experience
GIS&RS Assistant	03	• B. Tech/B.E in Remote Sensing and 5 years of relevant experience

Online application is available in the website [www.crda.ap.gov.in](http://www.crda.ap.gov.in) in careers tab and can be submitted from 12.01.2019 to 24.01.2019.

For Further details and competencies required please visit the website [www.crda.ap.gov.in](http://www.crda.ap.gov.in)

Sd/- Commissioner,  
APCRDA, Vijayawada.

Date: 10.01.2019

Place: Vijayawada.

## JOB DESCRIPTION

S No	Post Name	No. of posts	Education Qualification	Relevant Exp.in years
1	GIS Specialist	02	B.E / B.Tech in Remote Sensing	5 years relevant experience in GIS Related Projects in Urban Applications in Govt. Semi Govt. PSU/Urban Planning Projects is preferable
2	GIS and Remote Sensing Assistant	3	B. E/B.Tech in Remote Sensing	5 years' Experience GIS related Projects in Urban Applications in Govt./Semi Govt./PSU/Urban Planning Projects is preferable

### 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.

GIS Specialist and GIS & Remote Sensing Assistant shall be responsible for preparation of thematic maps for assigned tasks for Capital City & Capital Region such as Master Plans, LPS layouts, Infrastructure planning maps etc.,

GIS Specialist and GIS & Remote Sensing Assistant shall work under the guidance of Additional Director (GIS) and perform the duties with quality, and maintain expected time lines as per the demands of various wings in APCRDA.

The above 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.

### RESPONSIBILITIES:

- He/she shall be responsible for collection, conversion, editing of various thematic layers acquired from various sources like Survey of India, NRSC, APSAC etc.,
- 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.,
- Responsible for generation of maps and other GIS reports and information products.
- Work on GIS activities related to Asset management, Land Management, preparation of Master Plans, creation of LPS Layouts 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.
- He/ She shall ensure that the maps generated are as per the quality standards laid out in the Geo database, or any other applicable standard or policy; Create and document procedures and metadata definitions.

#### **TASKS:**

- Creation / Conversion of data acquired from various sources to create new map layers using ArcGIS software.
- Editing of GIS data, Symbology and linking of attribute data to GIS layers.
- Creation of layouts for preparation of thematic maps.
- Analyze Geographic Information Systems (GIS) data to identify spatial relationships or display results of analyses, using maps, graphs, or tabular data.
- Work on spatial databases to store GIS data.
- 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.
- Select cartographic elements needed for effective presentation of information.
- 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 usecases, Knowledge of SQL Databases and ArcGIS Enterprise Server is an added advantage.
- Strong organizational, time management and interpersonal skills.

**COMPETENCIES REQUIRED:****Knowledge**

Computers and Electronics	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
Geography	Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.
English Language	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.
Mathematics	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
Design	Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.
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.
Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.

### **Skills**

Critical thinking	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
Reading comprehension	Understanding written sentences and paragraphs in work related documents.
Complex problem solving	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
speaking	Talking to others to convey information effectively.
Active Learning	Understanding the implications of new information for both current and future problem-solving and decisionmaking.
Judgment and decision making	Considering the relative costs and benefits of potential actions to choose the most appropriate one.
Active listening	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
mathematics	Using mathematics to solve problems.
writing	Communicating effectively in writing as appropriate for the needs of the audience.
Coordination	Adjusting actions in relation to others' actions.

### **Abilities**

Inductive reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
Near Vision	The ability to see details at close range (within a few feet of the observer).
Deductive reasoning	The ability to apply general rules to specific problems to produce answers that make sense.
Written comprehension	The ability to read and understand information and ideas presented in writing.
flexibility of closure	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.
Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).

Oral expression	The ability to communicate information and ideas in speaking so others will understand.
Problem sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.
Category Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.

### **Tools**

Laser Printers	Computer laser printers
Notebook Computers	Laptop computers
Photocopiers	Photocopying equipment
Plotter Printers	Large-format plotters; Plotters
Scanners	Computer data input scanners; Digitizers

### **Technology**

- **GIS SOFTWARE:**— ESRI ArcGIS Desktop 10.5 and above versions with knowledge in ArcGIS Extension like Spatial Analyst, Network Analyst, 3D Analyst, GeoStatistical 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:**

- 5 years' Experience GIS related Projects in Urban Applications in Govt./Semi Govt./PSU/Urban Planning Projects is preferable

**LOCATION:** VIJAYAWADA

**DATE OF JOINING:** Immediate Joining