

**ODISHA SPACE APPLICATIONS CENTRE (ORSAC)**  
**(Dept. of Science & Technology, Govt. of Odisha)**  
 Plot No.45/48(P) JayadevVihar, Near Gopabandhu Academy of Administration  
 Unit-16, Bhubaneswar-751023

NOTICE No. 16/2025

**Contractual Engagement of Highly Skilled IT and Geo informatics Professionals in  
 Open Source Based Technologies**

Applications are invited from Qualified, Experienced and Competent Indian Citizens, having minimum experience of five years, **only in IT Industry / Production environments**, in Design, Development, Commission, Operation, Maintenance and Supervision of **Enterprise Class Web Enabled Geo informatics / GIS Applications** in the following Domain Specialties i.e.

Sl No.	Domain Specialties	No. of Post
1.	Server & Network Admin	02
2.	Spatial Database Admin	01
3.	Web & Mobile GIS Application Developer	01
4.	Web GIS Server Co-Administrator cum Developer	01
5.	AI/ML Admin in Geo-spatial domain	01
6.	Database Administrator	01
7.	Business Analyst	01
8.	RS-GIS Project Manager	01

The engagements are full time in-premise at ORSAC and purely contractual in nature and will continue as per the requirements of ORSAC for a period of 1 year and extensible as per requirement of ORSAC (Maximum Extension of Contractual Engagement will be 3 years). Remuneration will be commensurate/negotiated with the candidate's pay parity with previous salary and Experience subject to maximum of Rs. 1,00,000 Per Month (Consolidated). Details of requirement of ORSAC for the above engagements can be downloaded from ORSAC website <http://www.orsac.odisha.gov.in> or from the "All Avertissement" section of [www.odisha.gov.in](http://www.odisha.gov.in) . These engagements are also advertised in [www.naukri.com](http://www.naukri.com) and social media platform of ORSAC.

Interested candidates must apply in the given link available in ORSAC websites and must go through all relevant documents required to verify the Professional and educational competence of the Applicant as per the defined criteria. One Applicant can apply for One Domain area only. The Last date of submission of application **is up to 17:00 Hrs , 30/06/2025**

ORSAC reserves the right to change/ accept/reject/modify and cancel the full Advertisement or any part thereof at any time without assigning any reason thereof. For details, please visit <http://www.orsac.odisha.gov.in> or [www.odisha.gov.in](http://www.odisha.gov.in)



*Panda*  
 17/5/25  
**CHIEF EXECUTIVE**

# ODISHA SPACE APPLICATIONS CENTRE (ORSAC)

(Dept. of Science & Technology, Govt. of Odisha)

## A. General Required Criteria for Engagement of Contractual Highly Skilled IT and Geo Informatics Professionals

Sl. No	Minimum Required Criteria	Description
1	General Criteria	<p>a. The applicant must be a bona fide citizen of India.</p> <p>b. No criminal cases should be pending against him/her.</p> <p>c. Any earlier employer on account of fraud and misconduct should not have removed him/her.</p> <p>d. He must be free from all obligations from all his/her previous employers, and also the current employer if he/she is selected as suitable in this engagement.</p> <p>e. He/she should have sound mental and physical health to perform his/her duties as an IT Professional as certified by a Registered Medical Practitioner under Service of Government of Odisha /India with MD Qualification.</p> <p>f. Should be fluent in reading, writing and speaking English, Odiya /Hindi Language</p> <p>g. Should possess a good conduct certified by a Class-1 Gazetted officer of the Government of Odisha / India.</p> <p>h. Should possess strong problem solving and analytical skills.</p>
2	Educational Qualification	Should have completed 12 <sup>th</sup> standard with Mathematics as subject and should have secured minimum 50% of marks in aggregate in 12 <sup>th</sup> and 10 <sup>th</sup> Standard examinations.
3	Technical Qualification	<p><b><u>For serial number 1-6</u></b> Should possess a B.Tech Degree or MCA Degree or equivalent higher degree in the streams of IT/Computer Science from a recognized university securing a minimum of 60% marks in aggregate.</p> <p><b><u>For serial number 7</u></b> Post-Graduate Degree / Diploma in Management with Specialization in Finance / Banking &amp; Finance OR MBA (Finance/Banking &amp; Finance) OR ICWA / CMA / CA from recognized University / Institution with a first-class career.</p> <p><b><u>For serial number 8</u></b> M.Tech or M.Sc. in Remote Sensing &amp; GIS/Geoinformatics. Or M. Sc. / M. Tech with PG Diploma in Remote Sensing. Equivalent qualifications in related fields like Geoinformatics or Spatial Information Technology with a first-class career.</p>



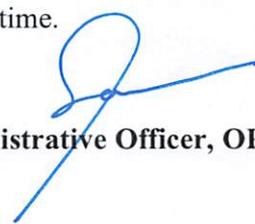
**B. Mandatory Terms and Conditions for Engagement of Contractual Highly Skilled IT and Geo Informatics Professionals**

1. This Contractual is full time in-premise at ORSAC and is purely temporary, contractual and terminable at any point of time as per requirement of the ORSAC and depending on the satisfactory performance of the candidate.
2. In the engagement period with ORSAC, no other job / part time job / assignments/ consulting etc with other organizations or person in any form or any other business in any form is not allowed and if such activities are noticed, the contract of engagement shall be terminated forthwith.
3. Engaged Candidate shall have no claim to a due to any permanent job at ORSAC or at any Government Organization due to this temporary and contractual engagement.
4. Selected candidate will submit a medical fitness certificate from a Govt Hospital of Odisha and will go through a 4 (Four) months' period of on job performance and competence evaluation. Evaluation will be objective and will be based on Verifiable, and Quantifiable output as per project requirements. If the candidate is found suitable with successful evaluation of performance and competence within a period of four months, he / she will be engaged on a further contractual engagement of one year and it is extensible / renewable only as per the requirements of ORSAC / Government, with a full monthly stipulated consolidated remuneration.
5. Engagement/s of the Candidate who will be evaluated as unsuccessful within Evaluation Period of four months, will be terminated forthwith by ORSAC and decision of ORSAC shall be final and binding. Evaluation period shall not be extended except unexpected serious health condition of the candidate.
6. Decisions of ORSAC / S&T Dept., Govt. of Odisha is final with respect to the consolidated remuneration.
7. Shortlisted candidates will be invited for verification of credential and documents and interview to assess the Technical competence and proficiency by Team of Technical Panel of Experts constituted by ORSAC. At the time of Interview, the applicant must come with Colour Photograph, self-attested copies of all relevant and genuine certificates of Educational Qualification (Matriculation onwards), Technical Qualifications, Professional Qualifications, Experience and Employment Certificates, Appointment Letter, Certificates of works executed issued by Employers / Clients (This must be independently verifiable by ORSAC) , Last 3 months Pay Slip duly stamped and signed by Previous or Present employer (for in service candidate), EPF Registration Number, Copy of the ID Card Issued by the Employer, Copy of the ADHAR Card, Conduct Certificate issued by a Gazetted officer and Copy of Bank Pass Book in which last 3 months salary is paid by employer and any other relevant document etc.
8. Any form of Canvassing or Influencing ORSAC by the candidates shall lead to rejection of his / her Application.
9. No requests on the change of any Terms or Conditions of this notice of engagement or raising any undue clarification using any mode of communication shall not be entertained by ORSAC. ORSAC is not bound to respond to all communications of the Applicants. Updated status of all Applications of the Applicants will be notified in the



application link under Job section given at website of ORSAC at [www.orsac.odisha.gov.in](http://www.orsac.odisha.gov.in). Candidates are requested to visit the application link under Job section and official Website of ORSAC in order to update themselves.

10. List of selected Candidate/s will be notified under due procedure of ORSAC and selected candidate/s will be intimated to join within a month positively without fail. If a candidate fails to join within one month, his candidature will be automatically treated as cancelled.
11. Decision of Chief Executive, ORSAC in the matter of the Contractual Engagements will be final and binding.
12. Resignation Terms and Conditions: In case of Resignation from service, the selected candidate should serve 3 months' notice period or 3 months' notice pay instead of notice period.
13. Termination: The performance of Selected Candidate will be reviewed by ORSAC from time to time. At any time if the performance of any candidate found unsatisfactory for various reasons like technical incompetence, indiscipline, irregularity, insincerity, disobedience, doubtful credentials/ integrity etc ORSAC has right to terminate the candidate with or without 1 month notice period.
14. Selected Candidate should maintain absolute secrecy and security of the figures, flow charts, pseudo code, reference code etc., provided by ORSAC for the purpose of design, development, conversion, coding, implementing and testing or stored on various computing systems/Servers at ORSAC. Candidate shall return the original and copies of the same to ORSAC after completion of the Contract. The technical information / papers / drawings to be provided by ORSAC from time to time, are for the execution of this Contract only; and should not be used / copied / reproduced / published in any form or disclosed to third party, by Selected Candidate. Thus, the Selected Candidate is required to sign a **Non-Disclosure Agreement (NDA)** with ORSAC. Selected Candidate will also be responsible for any violation or infringement of NDA.
15. Any litigation matter pertaining to Contractual Engagement at ORSAC shall be amenable to the Jurisdiction of Courts in Bhubaneswar.
16. All other Terms and Conditions will be followed as per Contractual Engagement Rules and Guidelines issued by Government of Odisha from time to time.

  
Administrative Officer, ORSAC



# ODISHA SPACE APPLICATIONS CENTRE (ORSAC)

(Dept. of Science & Technology, Govt. of Odisha)

## TECHNICAL REQUIREMENT

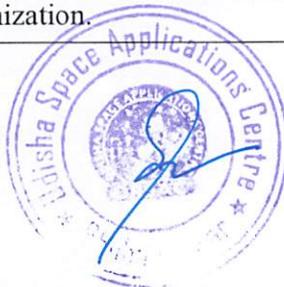
Odisha Space Applications Centre under the Department of Science and Technology, Govt of Odisha, is the Nodal Organization to provide Geo informatics Services to Govt. of Odisha. Currently it is executing many large Geo informatics-based IT Projects for various Departments of Government of Odisha and India. Further, the Centre is building advance IT Infrastructures to host various web portals and mobile applications. Design and Operation of Server based Enterprise Class Web GIS Applications with their associated Mobile GIS applications are becoming the main activities of the Centre. All the Geo-IT Applications of ORSAC is getting Mobile Enabled and there is an immediate need to engage **Highly Skilled IT and Geo informatics Professionals in Open Source based Technologies** for the following domain specialities:

### 1. Server and Network Admin

Sl. No	Minimum Required Criteria	Description
1	Work Experience	Must have a minimum of 5 (Five) Years of full time working experience in Server and Network Administration in a Data Centre / Cloud Infrastructure/ Large Scale Enterprise Class Server Room environment of firms in Organized IT industry or Government organization or PSU or Large Corporate Organization involving Web Technologies and Mobile Applications.



Sl. No	Minimum Required Criteria	Description
2	Desirable Technical skill sets	<ul style="list-style-type: none"> <li>a. Fair knowledge to deploy and manage Applications on Cloud IT Infrastructures like AWS, Google Cloud, Microsoft Azure etc.</li> <li>b. Valid OEM Certificates like CCNA etc.</li> <li>c. Writing Unit tests for the applications and Software Quality Control.</li> <li>d. Familiarity with firewalls intrusions detection and cyber security measures.</li> <li>e. High operational familiarity with computer server, storage &amp; Networking HWs like all types of Physical Server HW, NW Switches, SAN, NAS, UPS Systems etc</li> <li>f. Experience in installation, Management and Maintenance (Including Patching, Tuning, Updating and Upgrading etc.) of Red Hat Enterprise Linux – 7, Windows Server 2012 R2 or above, other Linux flavours in Debian and RPM.</li> <li>g. Experience and expertise in Networking of Servers, Storage on a Multi Stack and cross platform OS environment.</li> <li>h. Sound Experience in Creation and Management of Server and Storage Virtualization using Open Source Unix / Linux tools like Linux KVM etc.</li> <li>i. Experience in upgrading the Linux Server OD Kernels &amp; Shells as and when required.</li> <li>j. Installation and configuration of Database Servers like PostgreSQL/ MySQL / MSSQL Server / Oracle in Linux and Windows Server Environment.</li> <li>k. Sound Knowledge &amp; Experience in implementing and managing public and private cloud infrastructure using Open Stack Technologies.</li> <li>l. Sound experience in Managing Unified Threat Management Systems from Sophos, Cyberoam, CISCO etc.</li> <li>m. Sound experience on containers implementation with Docker. And Container Orchestration with Docker Swarm and Kubernetes.</li> <li>n. Experience in managing Directory Services in Linux and Windows environments e.g. MS Active Directory Services, Open LDAP etc.</li> <li>o. Experience in implementing HA Clustering of physical and virtual servers on Active-Active/Active-Passive mode of clustering in Linux and Windows.</li> <li>p. Possess sound skill in managing Cloud Based IT Infrastructure resource of an organization for application hosting and management and integration of Cloud and on premise infrastructure.</li> <li>q. Experience in skill and Implementing Network Security Policies and Protocols for data centre and Devices used in the organization.</li> </ul>



Sl. No	Minimum Required Criteria	Description
		r. Possess the skills on implementing MDM in organization. s. Possess the skills of managing SAN, NAS, SAN Switches, UPS and Precision Climatic Control for Servers, Switches and other HW. t. Knowledge on SHELL SCRIPTING for automating tasks. u. Experience in various programming language for web application and mobile development for reviewing of the applications for security assessment and or bugs. v. Knowledge on GIT and GITHUB so that all the projects are brought under proper versioning system. w. Knowledge to setup and configure GIS Server like Geo-Server / QGIS Server/ Map Server / ArcGIS Server / IGS etc. in Linux and Windows Environment. x. Sound Knowledge in System and Application Programming languages using C / C++ / Java and PHP/ C#/ .NET, JavaScript, HTML, Python, XML, PL/SQL etc.

**Note:**

1. *Production environment means; the works/ output created by the professional is consumed as product or service by a large number of people for external consumptions.*
2. *Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.*
3. ***Candidates having above Skill Set will be preferred.***

Note: Candidates shall have to give an undertaking that, if necessary, they will self-learn any of the above and any other skill as required within 6-12 months along with the usual and regular working loads.



## 2. Spatial Database Admin

Sl. No.	Minimum Required Criteria	Description
1	Work Experience	<p>a. Must have a minimum of 5 (Five) Years of full time working experience as Database Administrator / manager in the Production Environment of an Organized IT industry or Government Dept / Organization or PSU or Large Corporate Organization. Must have experience in practical and production environment hands-on experience with OGC and ACID Compliant DBs with Spatial Database / Geodatabase hosted on UNIX / Linux and Windows Server OS Environment ; like PostgreSQL with PostGIS, Oracle with Locator Extension, MySQL , SQL Server etc with LBS Extn.</p> <p>b. Operating System: Fully conversant in working with UNIX/ Linux Server Operating Systems.</p>
2	Desirable Technical skill sets	<p>a. Installation, Administration and Management of ACID Compliant RDBMS like PostgreSQL/ MySQL/ORACLE etc on Unix / Linux and Windows Server OS Environment on CLP Terminal and GUI.</p> <p>b. Recovery Manager (RMAN)</p> <p>c. Able to monitor health of database, replication servers and DR latency.</p> <p>d. Oracle Real Application Cluster, Oracle Data Guard</p> <p>e. Database Migrations, Patching, Upgradation and Partitioning of Tables.</p> <p>f. Use of Directory Services like Open LDAP</p> <p>g. Database performance tuning using automatic workload repository and Stats Pack.</p> <p>h. Shell scripting using Bourne Shell, Power Shell etc.</p> <p>i. Logical Backup and Recovery using Data Pump, Export/Import, Barman.</p> <p>j. Advanced knowledge of SQL and PL/SQL.</p> <p>k. Knowledge of Open source DBMS and cloud based RDBMS Architecture Concepts.</p> <p>l. Able to troubleshoot database issues.</p> <p>m. Experience in performance tuning of DBs.</p>



		<ul style="list-style-type: none"> <li>n. Remote management of DB.</li> <li>o. Creation of DB Web services.</li> <li>p. Working under VPN Protocol &amp; Authentications.</li> <li>q. Experience in Big-data, Hadoop, Spark etc.</li> <li>r. Preliminary knowledge on some machine learning techniques</li> </ul>
--	--	---

**Note:**

1. Production environment means: The works / output created by the professional is consumed as product or service by a large number of people for external consumptions.
2. Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.
3. ***Candidates having above Skill Set will be preferred.***

Note: Candidates shall have to give an undertaking that, if necessary they will self-learn any of the above skill as required within 6-12 months along with the usual and regular working loads.



### 3. Web & Mobile GIS Application Developer

Sl. No.	Minimum Required Criteria	Description
1	Work Experience	<p>a. Must have a minimum of 5 (Five) Years of full time development experience in Geospatially Enabled Web and Mobile Application Development in Google's Android / Apple's iOS, using Native and Hybrid Platforms in an Organized IT industry or Government Organization or PSU or large Corporate Sector.</p> <p>b. The Applicant must have the experience and expertise of integrating the Mobile Applications with Web GIS Application and Geo databases.</p> <p>c. The Applicant must have Designed, Developed and Maintained minimum 5 numbers of Independent Mobile GIS Applications / Application Modules and these must have been published in Play store / App Store and linked to the respective Web GIS or Web MIS Applications and Mobile Applications with location intelligence..</p>
2	Desirable Technical skill sets	<p>a. Experience in developing Enterprise class Geospatially / LBS (Location Based Service) Enabled Mobile Application in Android using Kotlin/ Java/ iOS using Swift and publishing them in Google Play Store / Apple's App Store.</p> <p>b. Hybrid Platform like Flutter / Dart etc.</p> <p>c. Sound Skills in operating Mobile DB like SQLite etc.</p> <p>d. Use of JSON, XML etc. &amp; TCP / IP Protocol in Mobile to Server Data Communication.</p> <p>e. Knowledge on working with web service on REST/ SOAP/ GRAPHQL etc.</p> <p>f. Fair knowledge on mobile operating system's Kernel and Commissioning &amp; Operating Enterprise Class MDM.</p> <p>g. Sound Knowledge on Client-Server Architecture</p> <p>h. Minimum knowledge to write web services for the Web GIS &amp; Mobile GIS applications as and when required.</p> <p>i. Knowledge to setup and configure GIS Server like Geo-Server / QGIS Server/ Map Server / ArcGIS Server / IGS etc. in Linux and Windows Environment.</p> <p>j. Experience in Version control software like Git etc.</p>



Sl. No.	Minimum Required Criteria	Description
		k. Experience in full-stack development and related softwares like Mongo DB, Angular, Express JS, React, Node etc. l. Experience in different Visualization tools like Tableau, Graph JS, D3 JS etc.

**Note:**

1. *Production environment means; the works/ output created by the professional is consumed as product or service by a large number of people for external consumptions.*
2. *Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.*
3. *Candidates having above Educational Qualifications, Experience and Skill Sets will be preferred.*

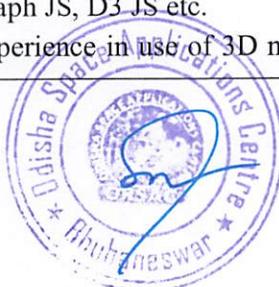
**Preferred Additional Skill Set:**

- a. Application programming with PHP, Python, C++ and other Open Source IT Tools.
- b. Writing REST APIs and GRAPHQL.
- c. Basic Knowledge on Operating GIS SWs, GIS Servers, Geo database and Handling Big Data and some amount of Ethical Hacking skills.



#### 4. Web GIS Server Co-Administrator cum Developer

Sl. No.	Minimum Required Criteria	Description
1	Work Experience	<ul style="list-style-type: none"> <li>a. Must have a minimum of 5 (Five) Years of full time development experience in Geospatially Enabled Web in different Platforms in an Organized IT industry or Government Organization or PSU or large Corporate Sector.</li> <li>b. The Applicant must have the experience and expertise of integrating the Web GIS Application and Geo databases.</li> <li>c. The Applicant must have Designed, Developed and Maintained minimum 5 numbers of Independent WEB GIS Applications / Application Modules.</li> </ul>
2	Desirable Technical skill sets	<ul style="list-style-type: none"> <li>a. Experience in developing Enterprise class Geospatially / LBS (Location Based Service) Enabled Web Application in PHP / Java / Python.</li> <li>b. Sound Skills in operating GIS Software like QGIS/ ArcGIS etc.</li> <li>c. Use of JSON, XML etc. &amp; TCP / IP Protocol in Web to Communicate to server.</li> <li>d. Knowledge on working with web service on REST/ SOAP/ GRAPHQL etc.</li> <li>e. Fair knowledge on operating system's Linux/ Windows and Commissioning &amp; Operating Enterprise Class Applications.</li> <li>f. Sound Knowledge on Client-Server Architecture</li> <li>g. Minimum knowledge to write web services for the Web GIS &amp; Mobile GIS applications as and when required.</li> <li>h. Knowledge to setup and configure GIS Server like Geo-Server / QGIS Server/ Map Server / ArcGIS Server / IGS etc. in Linux and Windows Environment.</li> <li>i. Experience in Version control software like Git etc.</li> <li>j. Experience in full-stack development and related software like Mongo DB, Angular, Express JS, React, Node etc.</li> <li>k. Experience in different Visualization tools like Tableau, Graph JS, D3 JS etc.</li> <li>l. Experience in use of 3D mapping and modelling software</li> </ul>



Sl. No.	Minimum Required Criteria	Description
		<p>like Blender and ARC GIS etc.</p> <p><b>Bonus: Emerging Skills</b></p> <ul style="list-style-type: none"> <li>• Cloud-native GIS (e.g., Esri ArcGIS Online, AWS S3 + GeoTIFF + Lambda)</li> </ul>

**Note:**

1. *Production environment means; the works/ output created by the professional is consumed as product or service by a large number of people for external consumptions.*
2. *Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.*
3. *Candidates having above Educational Qualifications, Experience and Skill Sets will be preferred.*

**Preferred Additional Skill Set:**

- a. Application programming with PHP, Python, Java and other Open Source IT Tools.
- b. Writing REST APIs and GRAPHQL.
- c. Basic Knowledge on Operating GIS SWs, GIS Servers, Geo database and Handling Big Data.



## 5. AI/ML Admin in Geo-spatial Domain

Sl. No.	Minimum Required Criteria	Description
1	Work Experience	<p>a. Must have a minimum of 5 (Five) Years of full time development experience in Geospatial AI/ML Industry. Integrating it with Web and Mobile Application Development in Google's Android / Apple's iOS, using Native and Hybrid Platforms in an Organized IT industry or Government Organization or PSU or large Corporate Sector.</p> <p>b. The Applicant must have the experience and expertise of Remote Sensing and GIS along with domains like Agriculture, Forest, Land etc.</p> <p>c. The Applicant must have Designed, Developed and Maintained minimum 5 numbers of Independent Mobile GIS Applications / Application AI/ML Modules and these must have been published in Play store / App Store and linked to the respective Web GIS or Web MIS Applications.</p>
2	Desirable Technical skill sets	<p>a. Experience in developing Enterprise class AI/ML Geospatially / LBS (Location Based Service) Enabled AI/ML modals based on both open source / Enterprise platforms and integrated it with Mobile Applications in Android / iOS using Java / Swift; and publishing them in Google Play Store / Apple's App Store.</p> <p>b. Sound Skills in operating multiple relational DB like SQLite etc.</p> <p>c. Use of JSON, XML etc. &amp; TCP / IP Protocol in Mobile to Server Data Communication.</p> <p>d. Knowledge on working with web service on REST API etc.</p> <p>e. Sound Knowledge on Client-Server Architecture</p> <p>f. Minimum knowledge to write web services for the AI/ML based integration with Web GIS &amp; Mobile GIS applications as and when required.</p> <p>g. Knowledge to setup and configure AI/MLServerin Linux and Windows Environment.</p> <p>h. Experience in Version control software like Git etc.</p>



Sl. No.	Minimum Required Criteria	Description
		i. Experience in different Visualization tools like Matplotlib etc. <b>Bonus: Emerging Skills</b> <ul style="list-style-type: none"> <li>• Machine Learning for geospatial (e.g., object detection, image segmentation)</li> <li>• LiDAR data interpretation</li> <li>• Drone data workflows</li> <li>• Cloud-native GIS (e.g., Esri ArcGIS Online, AWS S3 + GeoTIFF + Lambda)</li> </ul>

**Note:**

1. *Production environment means; the works/ output created by the professional is consumed as product or service by a large number of people for external consumptions.*
2. *Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.*
3. *Candidates having above Educational Qualifications, Experience and Skill Sets will be preferred.*

**Preferred Additional Skill Set:**

- a. AI/ML packages like TensorFlow, PyTorch, Different Machine Learning Algorithms etc.
- b. Application programming with PHP, Python, or any and other Open Source IT Tools etc.
- c. Writing REST APIs
- d. Basic Knowledge on Operating GIS SWs, AI/ML Servers, Geo database and Handling Big Data.



## 6. Database Administrator

Sl. No.	Minimum Required Criteria	Description
1	Work Experience	<ul style="list-style-type: none"> <li>a. Must have a minimum of 5 (Five) Years of full time database administrator and development experiences in Geospatially Enabled Web and Mobile Application Database Management in ORACLE, Postgresql, MSSQL, MySQL or Hybrid Platforms in an Organized IT industry or Government Organization or PSU or large Corporate Sector.</li> <li>b. The Applicant must have the experience and expertise of maintaining High Availability and High Performance Database both Open source and Enterprise based Databases with the knowledge of Location Intelligence(Geo databases).</li> <li>c. The Applicant must have Designed, Developed and Maintained minimum 5 numbers of Independent Applications.</li> </ul>
2	Desirable Technical skill sets	<ul style="list-style-type: none"> <li>a. Experience in developing Enterprise class Geospatially / LBS (Location Based Service) Enabled Database restoring, creating new, managing High Availability.</li> <li>b. Sound Skills in operating any DB like PostgreSQL etc.</li> <li>c. Fair knowledge on operating system's Commissioning &amp; Operating Enterprise Class DB on Linux / Windows and Cloud Based platform.</li> <li>d. Sound Knowledge on Client-Server Architecture.</li> <li>e. Knowledge to setup and configure GIS Database Server like ORACLE/ PostgreSQL etc. in Linux and Windows Environment.</li> <li>f. Experience in Version control software like Git etc.</li> <li>g. Experience in writing store procedures, triggers and functions.</li> </ul>

**Note:**

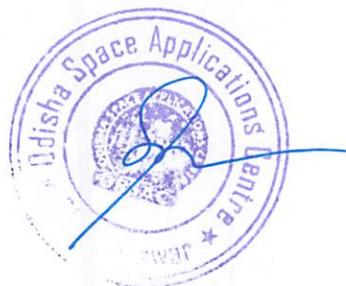
1. *Production environment means; the works/ output created by the professional is consumed as product or service by a large number of people for external consumptions.*



2. *Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.*
3. *Candidates having above Educational Qualifications, Experience and Skill Sets will be preferred.*

**Preferred Additional Skill Set:**

- a. Application Open Source and Enterprise Databases.
- b. Knowledge on Operating GIS based databases and Handling Big Data and security measures for setup the Enterprise class database.



## 7. Business Analyst

Sl. No.	Minimum Required Criteria	Description
1	Work Experience	<p>a. Must have a minimum of 5 (Five) Years of full time experience as Business Analyst in an industry or Government Organization or PSU or large Corporate Sector.</p> <p>b. The Applicant must have the knowledge of Microsoft Office i.e. Power Point, Excel etc.</p> <p>c. The Applicant must have Designed Software Requirement Specification / Technical Documents / Techno Commercial Proposals in minimum 5 numbers of Project Proposals.</p> <p>d. Purchasing stationery / consumables/ property items/ IT equipment, etc through GeM by floating RFP direct purchase, etc as per Policy.</p>
2	Desirable Technical skill sets	<p><b>Business/Data Analysis Skills</b></p> <p><b>1. Data Analysis &amp; Visualization</b></p> <ul style="list-style-type: none"> <li>• Power BI / Tableau – for dashboarding spatial and non-spatial KPIs</li> <li>• Excel (advanced) – pivot tables, lookups, data wrangling</li> </ul> <p><b>2. Basic Knowledge of Finance and taxation</b></p> <ul style="list-style-type: none"> <li>• Knowledge of General Financial Rules, Operations in GeM</li> <li>• Techniques of Recordkeeping,</li> <li>• Basics of Accounts / Finance / Law (Contract Act etc), Ethics</li> <li>• Conflict Resolution.</li> </ul> <p><b>3. System Design Awareness</b></p> <ul style="list-style-type: none"> <li>• Basic understanding of IT system architecture and infrastructure components.</li> </ul>

**Note:**

1. Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.
2. Candidates having above Educational Qualifications, Experience and Skill Sets will be preferred.



## 8. RS-GIS Project Manager

Sl. No.	Minimum Required Criteria	Description
1	Work Experience	<p>a. Minimum of 5 years of experience in Geo-informatics application projects. Experience in project management, including planning, execution, and monitoring of GIS/RS projects.</p> <p>b. The Applicant must have the experience and expertise of maintaining standards for geospatial database to be integrated in the Web and Mobile Applications.</p> <p>c. The Applicant must have Designed, Generated and Maintained minimum 5 numbers of Independent RS-GIS projects with minimum of 15 team size under him.</p>
2	Desirable Technical skill sets	<p><b>Core Technical Skills</b></p> <p><b>1. GIS Software Proficiency</b></p> <ul style="list-style-type: none"> <li>• <b>ArcGIS (Desktop &amp; Online)</b> – mapping, geoprocessing, and spatial analysis</li> <li>• <b>QGIS</b> – open-source alternative, great for plugins/custom analysis</li> <li>• <b>MapInfo / ERDAS Imagine / ENVI</b> – depending on industry segment (urban planning, remote sensing, etc.)</li> </ul> <p><b>2. Remote Sensing &amp; Image Analysis</b></p> <ul style="list-style-type: none"> <li>• Understanding of: <ul style="list-style-type: none"> <li>○ Satellite data types (e.g., Sentinel, Landsat)</li> <li>○ Classification techniques (supervised/unsupervised)</li> <li>○ Change detection, NDVI, LULC analysis</li> </ul> </li> </ul> <p><b>3. Spatial Databases &amp; Querying</b></p> <ul style="list-style-type: none"> <li>• PostgreSQL/PostGIS – for handling large-scale spatial data</li> <li>• SQL for spatial querying</li> <li>• Knowledge of GeoServer or MapServer is a bonus</li> </ul> <p><b>4. Programming / Scripting (Optional but Valuable)</b></p> <ul style="list-style-type: none"> <li>• <b>Python</b> – for geospatial processing (e.g., using GDAL, Rasterio, Geopandas)</li> <li>• <b>R</b> – spatial statistics and visualization</li> <li>• <b>JavaScript</b> – especially for working with web maps (e.g., Leaflet, Mapbox, OpenLayers)</li> <li>• Familiarity with <b>Google Earth Engine (GEE)</b> is a major plus</li> </ul> <p><b>Bonus: Emerging Skills</b></p>



Sl. No.	Minimum Required Criteria	Description
		<ul style="list-style-type: none"> <li>• Machine Learning for geospatial (e.g., object detection, image segmentation)</li> <li>• LiDAR data interpretation</li> <li>• Drone data workflows</li> <li>• Cloud-native GIS (e.g., Esri ArcGIS Online, AWS S3 + GeoTIFF + Lambda)</li> </ul>

**Note:**

1. Working in Firms under Organized Sector means: Registered Business Firms or Government Organizations who pay duly accounted salary/emoluments/wages as per lawful accounting procedures of the Firm/ Government Organization.
2. Candidates having above Educational Qualifications, Experience and Skill Sets will be preferred.

**Preferred Additional Skill Set:**

- a. Arc GIS, Q-GIS Tools.
- b. Microsoft Office.
- c. Basic Knowledge on Operating GIS SWs, Geo database and Handling both vector and raster datasets.
- d. Managing Geospatial Data.

Note: Candidates shall have to give an undertaking that, if necessary, they will self-learn any of the above skill as required within 6 months along with the usual and regular working loads.

