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

NOTICE No. 27/2025

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 **three years, only in IT Industry / Production environments/ GIS or relevant disciplines** 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	01
2.	Spatial Database Admin	01
3.	Web & Mobile GIS Application Developer	01
4.	AI/ML Admin in Geo-spatial Domain	01
5.	Database Administrator	01
6.	Business Analyst	01
7.	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 Advertisement" section of www.odisha.gov.in . These engagements are also advertised in 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 31|12|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

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	a. The applicant must be a bona fide citizen of India. b. No criminal cases should be pending against him/her. c. Any earlier employer on account of fraud and misconduct should not have removed him/her. 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. 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. f. Should be fluent in reading, writing and speaking English, Odiya /Hindi Language g. Should possess a good conduct certificate ,certified by a Class-1 Gazetted officer of the Government of Odisha / India. h. Should possess strong problem solving and analytical skills.
2	Educational Qualification	The candidate must fulfill the following minimum Educational Qualification: 10th / Matriculation: Must have secured a minimum of 50% marks in aggregate in the 10th Standard examination. 12th Standard: Must have secured a minimum of 40% marks in aggregate in the 12th Standard examination. Graduation: Must have secured a minimum of 50% marks in aggregate in the Graduation examination.

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. 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. As these positions are designed for **lead-level roles,** the selected professionals will be expected to demonstrate strong **managerial and leadership capabilities,** including **project planning, team supervision, reporting, stakeholder coordination, and alignment of activities with the strategic objectives** of ORSAC and the Department of Science & Technology.

17. All other Terms and Conditions will be followed as per Contractual Engagement Rules and Guidelines issued by Government of Odisha from time to time.

Chief Executive

Odisha Space Applications Centre (ORSAC)

TECHNICAL REQUIREMENT

Odisha Space Applications Centre (ORSAC), under the Department of Science & Technology, Government of Odisha, is the apex organization for geospatial technology applications, spatial data infrastructure, and satellite-based decision support systems in the State. ORSAC has been instrumental in executing several large-scale ICT and Geo-informatics projects such as BLUIS, Work Passbook, Minor Minerals Monitoring, OMVTS, COAST, DCS, and other AI/ML-enabled remote sensing initiatives supporting various State Government departments.

To further strengthen its GEO-ICT and open-source technology initiatives, ORSAC invites applications from qualified, experienced, and competent Indian citizens for the following positions on purely contractual and consolidated basis.

Nature of Engagement: Purely on contract/consolidated basis (initially for one year, extendable based on performance and project requirements).

Remuneration: Up to ₹1,00,000 per month (consolidated), commensurate with experience.

Place of Posting: Bhubaneswar, Odisha.

Application Mode: Online through www.orsac.odisha.gov.in.

Screening & Selection: Based on qualifications, experience, and technical evaluation/interview. ORSAC reserves the right to fix higher eligibility thresholds and limit the number of candidates for interview.

1.   Server & Network Admin

Responsible for managing and maintaining ORSAC's IT infrastructure, including servers, networks, firewalls, and security systems.

Key Responsibilities:

i.   **IT Infrastructure Management & Team Coordination:** Supervise the infrastructure team responsible for server, storage, and network administration; plan and allocate tasks to ensure uninterrupted system availability and service delivery.

ii.   **Server & Infrastructure Management:** Deploy, configure, and maintain Red Hat Enterprise Linux, Windows Server, and other Linux distributions; manage kernel upgrades, tuning, patching, and virtualization using Linux KVM.

iii.   **Cloud & Virtualization:** Deploy and manage applications on **AWS, Google Cloud, Microsoft Azure**, and implement hybrid/public/private cloud environments using **OpenStack**; manage containerization with **Docker** and orchestration using **Kubernetes/Docker Swarm**.

iv.   **Networking & Security:** Administer firewalls, routers, switches, and VPNs; manage **UTM systems (Sophos, Cyberoam, Cisco)**; implement network security policies, IDS/IPS systems, and MDM solutions; conduct periodic security assessments and audits.

v. **Storage & High Availability:** Manage SAN/NAS systems, UPS, and precision environment controls; implement **HA clustering** (Active–Active/Active–Passive) for physical and virtual servers.

vi. **Database & GIS Server Integration:** Install and configure PostgreSQL, MySQL, Oracle, or MSSQL servers in Linux and Windows environments; deploy and manage **GIS servers** (GeoServer, QGIS Server, MapServer, ArcGIS Server, IGS).

vii. **Automation & Version Control:** Develop shell scripts for automation; manage code repositories and configuration baselines using **Git/GitHub**.

viii. **Documentation & Compliance:** Maintain detailed documentation of infrastructure, security configurations, and operational protocols; ensure adherence to cybersecurity and VAPT guidelines.

Qualification & Experience:

i. **Education:** B.Tech/M.Tech/MCA in IT, Computer Science, or equivalent discipline.

ii. **Experience:** Minimum 3 **years** in server/network administration

iii. **Certifications (Desirable):** CCNA, RHCE, or equivalent OEM credentials.

2. Spatial Database Admin

The Spatial Database Administrator (SDBA) will be responsible for designing, managing, and optimizing large-scale spatial databases that support ORSAC's Geo-ICT applications and analytical platforms. The role involves ensuring data integrity, security, performance tuning, and seamless integration of spatial data across enterprise GIS and AI/ML systems.

Roles & Responsibilities

i. Design, configure, and maintain spatial databases using PostgreSQL/PostGIS, Oracle Spatial, or SQL Server with GIS extensions.

ii. Develop and manage ETL workflows for spatial and non-spatial datasets using open-source tools (FME, GDAL, GeoKettle, Python scripts).

iii. Manage schema design, indexing, versioning, and replication strategies for multi-user environments.

iv. Ensure database performance, backup, disaster recovery, and high availability for critical GIS applications.

v. Integrate spatial databases with web-GIS servers (GeoServer, ArcGIS Server, MapServer) and AI/ML analytics pipelines.

vi. Collaborate with developers and analysts to optimize queries and API performance for map services.

vii. Enforce database access control, security protocols, and metadata standards in alignment with OGC/SDI guidelines.

viii. Prepare data dictionaries, documentation, and user manuals for standardized data management practices.

Educational Qualification & Experience

  i. Bachelor's or Master's degree in Computer Science, Information Technology, Geo-informatics, or a related discipline from a recognized university/institute.
  ii. Minimum Experience: 3 years of experience in spatial database administration, data modeling, or enterprise GIS systems.
  iii. Expertise in PostgreSQL/PostGIS, Oracle Spatial, or SQL Server Spatial administration.
  iv. Experience with AI/ML integration and geospatial data pipelines is desirable.

2. <u>Web & Mobile GIS Application Developer</u>

The Web & Mobile GIS Application Developer will be responsible for developing, deploying, and maintaining enterprise-class web and mobile applications that integrate geospatial and location-based services (LBS). The role involves working with both native and hybrid platforms, ensuring seamless data exchange between field devices, web-GIS servers, and enterprise databases.

Roles & Responsibilities

  i. **Mobile Application Development:** Develop native mobile applications for Android (Kotlin/Java) and iOS (Swift) platforms with geospatial/LBS functionalities; publish and manage apps on Google Play Store and Apple App Store.
  ii. **Hybrid Platform Development:** Design and develop cross-platform mobile applications using Flutter/Dart or equivalent hybrid frameworks.
  iii. **Database & Data Handling:** Manage mobile databases such as SQLite for offline data storage, synchronization, and performance optimization.
  iv. **Web Services & APIs:** Implement data communication using JSON/XML and TCP/IP protocols; integrate mobile apps with REST/SOAP/GraphQL APIs and web services for real-time data exchange.
  v. **System Architecture & MDM:** Work with client-server architectures and mobile OS kernels; commission and operate enterprise-grade Mobile Device Management (MDM) solutions for secure deployment.
  vi. **Web-GIS & Server Integration:** Develop and maintain web services for Web GIS and Mobile GIS applications; configure and operate GIS servers (GeoServer, QGIS Server, MapServer, ArcGIS Server, IGS) on Linux and Windows environments.
  vii. **Version Control & Collaboration:** Use Git/GitHub for version control and collaborative development workflows.
  viii. **Full Stack & Visualization Tools:** Support full-stack development using MongoDB, Angular, ExpressJS, React, and NodeJS; create interactive dashboards and visualizations using Tableau, GraphJS, D3.js, or similar frameworks.
  ix. **Testing & Quality Assurance:** Conduct performance testing, debugging, and optimization; ensure code quality and security compliance.
  x. **Documentation & Support:** Prepare deployment manuals, technical documentation, and provide user-level support for application rollouts.

Qualification & Experience:

  i. Education: B.Tech/M.Tech/MCA in Computer Science, Information Technology, or Geo-informatics from a recognized university/institute.

ii. Experience: Minimum 3 years of experience in web and mobile GIS application development, with proven expertise in native and hybrid app development and GIS server integration.

3. <u>AI/ML Admin in Geo-Spatial Domain</u>

The **AI/ML Administrator (Geo-Spatial Domain)** is responsible for developing and managing artificial intelligence and machine learning models for geospatial data analysis and integration. The role involves applying advanced AI/ML techniques to remote sensing, GIS, and location-based datasets to enhance decision-making through automation, predictive insights, and intelligent mapping solutions.

Roles and Responsibilities

i. Design, develop, and deploy **AI/ML-driven geospatial solutions** integrated with **Web and Mobile GIS applications** on Android and iOS.
ii. Build and manage **AI/ML models** using **TensorFlow, PyTorch**, and related frameworks for remote sensing, drone, and LiDAR data analytics.
iii. Configure and manage **AI/ML servers** (Linux/Windows), **databases** (PostgreSQL/PostGIS, SQLite), and **REST APIs** for data exchange.
iv. Apply knowledge of **client-server architecture**, data communication (JSON/XML), and version control (**Git**) for system integration.
v. Implement geospatial data visualization, analytics, and automation using **Python, Matplotlib**, and open-source tools.
vi. Collaborate with GIS and IT teams to integrate models into operational systems and ensure accuracy, scalability, and documentation compliance.

Qualifications and Work Experience

i. **Educational Qualification:** Bachelor's degree in **Computer Science / Information Technology / Geo-Informatics / related fields** from a recognized University or Institute. Preference will be given to candidates with a **Master's degree in Computer Science / IT / Geo-Informatics / Data Science / AI & ML or related disciplines** from recognized institutions.
ii. **Experience:** Minimum **3 years** of full-time development experience in **Geospatial AI/ML**, integrating models with Web and Mobile GIS applications in organized IT industry, Government, PSU, or large corporate sector.

4 <u>Database Administrator</u>

Responsible for the design, development, implementation, and maintenance of enterprise-level database solutions supporting ORSAC's data-driven applications and Geo-ICT systems. The role ensures data integrity, security, and performance across transactional and analytical workloads, integrating with GIS and AI/ML platforms.

Key Responsibilities

i. Develop and manage **enterprise-class geospatial/LBS-enabled databases**, including backup, restoration, and high-availability configurations.
ii. Operate and administer databases such as **PostgreSQL, Oracle, or MySQL** in production environments.
iii. Commission and manage enterprise databases on **Linux, Windows, and cloud-based platforms**.
iv. Implement and maintain **client–server database architectures** for high performance and scalability.
v. Configure and optimize **GIS databases** (Oracle Spatial/PostgreSQL with PostGIS) on both Linux and Windows environments.
vi. Utilize **version control tools** (e.g., Git/GitHub) for database scripts and configuration management.
vii. Develop and maintain **stored procedures, triggers, and functions** for data processing and workflow automation.

Educational Qualification & Experience

i. B.Tech/M.Tech/MCA in **Computer Science, Information Technology**, or related discipline from a recognized university/institute.
ii. Minimum Experience: 3 years of experience in **database development or administration**, including experience in **production environments**.
iii. Certification in **PostgreSQL/Oracle/MySQL administration** or **cloud database management** (AWS/Azure) will be an added advantage.

3. Business Analyst

The **Business Analyst** plays a key role in bridging business needs and technical solutions for Geo-ICT and GIS projects. The position involves requirement analysis, process documentation, and preparation of BRD/SRS/FRS while ensuring alignment between functional objectives, financial compliance, and technology implementation.

Roles and Responsibilities

i. Analyze business processes, gather user requirements, and prepare detailed **BRD, SRS, FRS**, and other technical documentation for Geo-ICT and GIS-based projects.
ii. Develop **Techno-Commercial Proposals**, functional specifications, and project documentation supporting ICT initiatives.
iii. Perform **data analysis and visualization** using **Power BI, Tableau, and advanced Excel** for reporting and decision support.
iv. Manage **procurement and financial processes** as per **General Financial Rules (GFR)** and **GeM** procedures, including RFP preparation and purchase execution.
v. Coordinate with technical, financial, and project teams for requirement validation, documentation, and reporting.
vi. Apply understanding of **IT system design and integration** to align business needs with technical solutions.
vii. Maintain project records, ensure process compliance, and support audits and evaluations.

Qualifications and Work Experience

i. **Educational Qualification:** Bachelor's degree in **Computer Science / Information Technology / Information Systems / related fields** from a recognized University or Institute. Preference will be given to candidates with a **Master's degree in Computer Science / IT / Information Systems / Finance or related disciplines** from recognized institutions.

ii. **Experience:** Minimum 3 years of full-time experience as a Business Analyst in Government, PSU, or large Corporate/IT organizations.

4. RS–GIS Project Manager

The **RS–GIS Project Manager** leads and oversees geospatial and remote sensing projects from planning to implementation. The role focuses on managing technical teams, ensuring data quality and standardization, and delivering GIS-based solutions that support decision-making across various application domains.

Roles and Responsibilities

i. Lead, plan, execute, and monitor Geo-informatics and Remote Sensing projects, ensuring adherence to quality, timelines, and technical standards.

ii. Manage project teams for spatial data processing, analysis, and integration into Web and Mobile GIS platforms.

iii. Maintain and enforce geospatial database standards, metadata protocols, and interoperability for enterprise GIS systems.

iv. Work proficiently with **ArcGIS, QGIS, ERDAS, ENVI,** and similar tools for mapping, spatial analysis, classification, and change detection.

v. Handle **satellite, drone, and LiDAR data**, perform NDVI/LULC analysis, and ensure data accuracy.

vi. Administer and optimize **PostgreSQL/PostGIS or equivalent databases**, integrating with GeoServer/MapServer.

vii. Use **Python, R, and JavaScript** for automation, data analytics, and web-mapping applications; experience with **Google Earth Engine** and cloud GIS is desirable.

viii. Coordinate with stakeholders, prepare technical documentation, and ensure adherence to project deliverables.

ix. Manage geo-database operations, vector/raster data handling, and reporting using **Microsoft Office** and visualization tools.

x. Stay updated with emerging geospatial technologies and adopt self-learning for new tools as required.

Qualifications and Work Experience

i. **Educational Qualification:** M.Tech / M.Sc in Remote Sensing, GIS, Geo-informatics/ Post Graduate in Geography with PG Diploma in Remote Sensing or allied discipline.

ii.   **Experience:** Minimum **3 years** in Geo-informatics application projects within Government or organized sector firms, with proven experience in planning, execution, and monitoring of GIS/RS projects and maintaining geospatial database standards for Web and Mobile integration.

How to Apply

Eligible candidates may apply online through the ORSAC website: www.orsac.odisha.gov.in

All updates, shortlisting status, and interview notifications will be published only on the official website.

Chief Executive

Odisha Space Applications Centre (ORSAC)