

**ODISHA SPACE APPLICATIONS CENTRE (ORSAC)**  
(Dept. of Science & Technology, Govt. of Odisha)  
BHUBANESWAR

**CORRIGENDUM**

Reference to the advertisement inviting Recruitment Notice No.02/2020 published in “The Sambad” & “The Hindu” dated 22.01.2020 for recruitment of High Skilled IT Professional (contractual engagement). The last date of submission of application is hereby extended from **11.02.2020 to 24.02.2020**. Other terms & conditions remain unchanged.

For details, please visit <http://www.odisha.gov.in> or <http://www.orsac.gov.in>

CHIEF EXECUTIVE

**ODISHA SPACE APPLICATIONS CENTRE (ORSAC)**

Dept. of Science & Technology, Govt. of Odisha,  
Plot No.45/48 (P), Jayadev Vihar, Unit-16,  
Bhubaneswar-751023, Odisha, India.  
E-mail: [orsac2012@gmail.com](mailto:orsac2012@gmail.com) Website: [www.orsac.gov.in](http://www.orsac.gov.in)

**RECRUITMENT NOTICE No. 02/2020**

Applications are invited from Imaginative, Innovative, Qualified, Experienced and Competent IT Professionals, having a minimum 3 years of Post-Technical Qualification experience in Organized IT Industry and working under production environments, in Design, Development, Commission, Operation, Maintenance & Supervision of Enterprise Class Web Enabled Applications and IT Infrastructures in the following Domains i.e

1. Unix/Linux Server & Network Admin
2. Enterprise class Database Development, Maintenance and Administration
3. GIS Server Operation , Administration & Web-GIS Development
4. Web & Mobile Application Developer

For detail refer to : <http://www.orsac.gov.in> or from the "All Advertisement" section of [www.odisha.gov.in](http://www.odisha.gov.in)

-Sd-  
CHIEF EXECUTIVE

**Engagement of High Skilled IT Professionals for Geo-ICT Applications in ORSAC**

Applications are invited from Imaginative, Innovative, Qualified, Experienced and Competent IT Professionals, having a minimum **3 (Three) Years of Post-Technical Qualification experience in Organized IT Industry and working under Production environments**; who are involved in Design, Development, Commission, Operation, Maintenance and Supervision of **Enterprise Class Web Enabled Applications and IT Infrastructures** in the following Domain Specialties i.e.

1. **Server & Network Operation and Administration in Unix / Linux Server and Windows Server Environments (One Person).**
2. **Database Development and Maintenance for Enterprise Class GIS / MIS Applications under Unix / Linux Server and Windows Server Environments (One Person).**
3. **Web-GIS Server Operation and Maintenance with Expertise in Web-GIS Application Developments under Unix / Linux Server and Windows Server Environments (One Person).**
4. **Web & Mobile GIS (iOS & Android) Application Development with expertise to integrate Mobile Apps with Server based Web-GIS Applications under Unix / Linux and Windows Server Environments (One Person).**

The engagements are Full-time In-premise deployments at ORSAC and contractual in nature as per the requirements of ORSAC. Currently an all-inclusive consolidated monthly remuneration of **Rs. 75,000/-** only will be paid during the engagement period. Minimum period of engagement under satisfactory working performance is three years and period of engagement with satisfactory working performance may be extended periodically further as per requirements of ORSAC and the mutual consent of the engaged professionals and ORSAC, as per the T & C of this engagement. Details of requirement of ORSAC for the above engagements can be downloaded from ORSAC website <http://www.orsac.gov.in> or from the "All Advertisement" section of [www.odisha.gov.in](http://www.odisha.gov.in).

Interested candidates must apply only in the prescribed format of this advertisement along with all relevant documents of credentials to verify the Professional and Educational competence of the Applicant as per the defined criteria of the engagement as per this advertisement. The Applicant must mark the domain area applied for the engagement on cover of the sealed envelope. Candidates should **Apply only for One Domain in which he / she has the best or**

**most suitable Technical Expertise and Competence.** Candidates applying for multiple domains, shall not be considered for shortlisting or interview for selection and their applications will be summarily rejected. It is to be noted that only the individual persons should apply for the above engagements and no agency or company should apply on behalf of candidates in the capacity of Manpower or Contractual Service Providers. Applications by Manpower or Contractual service providers agencies shall be summarily rejected.

The Applications shall be sent to "Administrative cum Accounts Officer, ORSAC, Bhubaneswar, Plot No-45/48(P), Jayadev Vihar, Unit-16, Bhubaneswar-7561023" through Registered Post / Speed Post / Courier / in-Person. Last date of submission of application is 17:00 Hrs. of Wednesday, 11th February 2020 (11-02-2020). No delay in submission of Application or submission of Applications through e-Mail / Fax / Telex is admissible. ORSAC reserves the right to change the above notice without assigning any reason thereof. For details, please visit [www.orsac.gov.in](http://www.orsac.gov.in) or [www.odisha.gov.in](http://www.odisha.gov.in) or please contact in person to the Administrative cum Accounts Officer (AAO) or Establishment Officer (EO), only at ORSAC within Official Hours.

**A. General Eligibility, Educational and Technical Qualification Criteria of Engagement:**

Sl. No	Minimum Required Criteria	Description
1	General Criteria	<ul style="list-style-type: none"><li>a. The applicant must be a bona fide citizen of India</li><li>b. No criminal cases should be pending against him/her</li><li>c. Applicant's age at the time of Application must not be more than 35 years.</li><li>d. Any earlier employer on account of fraud and misconduct should not have removed him/her from job / service.</li><li>e. 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.</li><li>f. 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.</li><li>g. Should be fluent in reading, writing and speaking English, Odiya /Hindi Language.</li><li>h. Should possess a good conduct certified by a Class-1 Gazetted officer of the Government of Odisha / India.</li></ul>



Sl. No	Minimum Required Criteria	Description
2	Experience	Having a minimum <b>3 (Three) Years of Post-Technical Qualification experience in Organized IT Industry and working under Production environments.</b>
3	Educational Qualification	Should have completed 12 <sup>th</sup> standard with Mathematics and Physics as core subjects and should have secured minimum 60% of marks in aggregate and in Mathematics and Physics in 12 <sup>th</sup> Standard examination or Engineering Diploma.
4	Technical Qualification	Should possess a B. Tech Degree in Computer Science & Engineering or Electronics and Telecommunication Engineering or MCA or Equivalent or higher from AICT recognized university securing a minimum of 60% marks in aggregate.
5	Relaxations	<p>a. Candidates who have relevant and proven post technical qualification experience in Organized IT Industries in production environment for more than 4 (Four) years, will be awarded a concession of 5% marks in educational and technical qualification.</p> <p>b. Candidates having exceptionally brilliant Academic and Technical Education Career (In all degrees exams) with minimum 85% marks , possessing Internationally Recognized Technical Certifications under relevant Domains or received awards / honors / recognition from Nationally / Internationally recognized professional bodies, may be considered with a minimum experience of 2 (Two) Years of Post-Technical Qualification experience in Organized IT Industry , working under Production environments.</p>

**B. Mandatory Terms and Conditions of Engagement of High Skilled IT Professionals at ORSAC.**

1. Engagement of the High skilled IT Professionals in all domain specialties is full time in-premise at ORSAC and is contractual with consolidated remuneration in nature. Minimum period of contract is for three years depending on the satisfactory performance of the selected candidates. Period of engagement of selected candidates may be extended depending on the Requirements of ORSAC with the mutual consent of the candidate and ORSAC.
2. As the candidates will work with cutting edge technologies, and selected candidates need to undergo Professional and Technical Trainings as per the requirements of ORSAC and undergoing the training and learning the skills imparted in the training are mandatory on the part of the candidates.
3. As ORSAC undertakes modern technological solutions in RS, GIS and Geoinformatics, the selected Candidates should inculcate an aptitude to continuously self-learn and excel in their domain and new domains and to act as an out of the box thinker, team leader and teacher.

4. Candidates should not be of rote learners type or must not be just good at just operating just some RS / GIS Application SWs or performing some regular repetitive tasks without not knowing the underlying fundamentals built into the SWs or the process.
5. Selected Candidates will be strongly encouraged by ORSAC to pursue their higher Technical Education and Skill Developments in relevant domains as per ORSAC's requirements and this cost may be fully or partially reimbursed by ORSAC with appropriate T & C.
6. Possession of the Skills of Basic / Fundamental and Applied Mathematics in the Domain of Geoinformatics and IT is absolutely necessary, and candidates must hon their fundamentals in Mathematics and Physics.
7. In the selection process, candidates will be tested against their Domain Skills applied for and the Fundamentals of Mathematics and Physics pertaining to RS, GIS & IT / Computing.
8. Continuous Learning, improving knowledge and skills and practical implementation of learned subjects with innovations, are some of the fundamental requirements of satisfactory performance and continuing the engagement of the selected candidates.
9. Selected candidate will submit a medical fitness certificate from a Registered Medical Practitioner and will go through a 4 (Four) months' period of on job performance and competence evaluation.
10. In this evaluation period of four months, the selected candidates will get a consolidated remuneration of Rs. 37,500/- per month. Evaluation will be objective and will be based on Verifiable, and Quantifiable output as per the requirements of ORSAC. If the candidate is found suitable with successful evaluation of performance and competence with right attitude , within an evaluation period of four months, he / she will be engaged on a further contractual engagement of three years and it is extensible / renewable only as per the requirements of ORSAC / Government, with a consolidated remuneration of Rs. 75,000/- Per Month. The payments of balance arrear of four months of evaluation period @ Rs. 37,500/- PM will be paid only to the successfully evaluated candidate/s.
11. 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.
12. 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.
13. Engaged Candidate shall not have any claims to any permanent job at ORSAC or at any Govt Organization due to this contractual engagement.
14. For exceptionally satisfactory performance which must be verifiable, quantifiable and recorded in performance roll, ORSAC may increase the consolidate remuneration with appropriate T & C after a minimum working of one year after evaluation period.
15. Decisions of ORSAC is final with respect to the consolidated remuneration of the Successfully Selected and Engaged Candidates.
16. Applications of the Candidates seeking engagements as per this advertisement, should be addressed to: **Administrative and Accounts Officer, Odisha Space Application**



*Centre (ORSAC), Plot No.45/48(P) Jayadev Vihar, Near Gopabandhu Academy of Administration. Unit-16, Bhubaneswar-751 023.*

17. Applications of candidates should reach ORSAC in sealed envelope through Registered Post / Speed Post / Courier / in person by **17:00 Hrs. of Wednesday, 11<sup>th</sup> February 2020 (11-02-2020)**.
18. Applications received after the above date and timeline and Applications sent over e-Mail, Fax, Telex etc shall be Summarily Rejected. No postal / courier delay shall be entertained.
19. Application must accompany a duly filled & ink signed CV cum Application form as per the prescribed format of the advertisement, Color Photograph affixed on the Application Form, self-attested copies of all relevant and genuine certificates of Educational Qualification (Matriculation onwards), Technical Qualifications, Professional Qualifications, With Mark Sheets , Experience and Employment Certificates, Appointment Letter, Certificates of works executed issued by Employers / Clients (This must be independently verifiable by ORSAC) , Last Pay Slip, 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 salary is paid by employer is deposited and any other relevant document etc.
20. Shortlisted candidates will be invited for verification of credential and documents and interview to assess the Academic and Technical Competence, Experience and Attitude by Team of Technical Panel of Experts constituted by ORSAC.
21. Second Class A/C train fare (to and fro) on shortest route as admissible will be provided only to the shortlisted candidates to attend the interview.
22. Any form of Canvassing or Influencing ORSAC by the candidates shall lead to rejection of his / her Application.
23. 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 website of ORSAC at [www.orsac.gov.in](http://www.orsac.gov.in). Candidates are requested to visit the site and update themselves.
24. List of selected Candidate/s will be notified under due procedure of ORSAC and selected candidate/s will be intimated to join preferably within a month and maximum within three months. If a candidate fails to join within three months, his selection will be treated as cancelled.
25. Decision of Chief Executive, ORSAC in the matter of Engagements of all Highly Skilled IT Professionals in all domain specialties will be final and binding.

## Details of Professional Criteria of Engagement of IT Professionals in ORSAC

All IT Professionals who will be engaged by ORSAC must fulfil the following technical and professional and experience criteria.

### 1. Server & Network Operation and Administration in Unix / Linux Server and Windows Server Environments.

Odisha Space Applications Centre under the Department of Science and Technology, Govt of Odisha, is the Nodal Organization to provide Geoinformatics Services to Govt of Odisha. Currently it is executing many large Geoinformatics based IT Projects for various Departments of Government of Odisha and India. Further the center 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 center. All the Geo-ICT Applications of ORSAC is getting Web and Mobile Enabled and there is a need to engage **Highly Skilled and Experienced IT Professionals for Server & Network Operation and Administration in Unix / Linux Server and Windows Server Environments.**

#### A. Required Criteria Post Technical Qualification Work Experience and Mandatory Skill Sets of Engagement:

Sl. No	Minimum Required Criteria	Description
1	Post Technical Qualification Work Experience	<ul style="list-style-type: none"><li>a. Must have a minimum of 3 (Three) Years of full time working experience in Server and Network Administration in a Data Centre / Large Scale Enterprise Class Server Room environment of firms in Organized IT industry or Government Organizations or PSU or Large Corporate Organizations.</li><li>b. Must have at least 3 (Three) Years of working experience to deploy Software Development involving Web Apps and Mobile Applications.</li><li>c. Should have fair knowledge to deploy and manage Applications on Cloud IT Infrastructures like AWS, Google Cloud, Microsoft Azure etc.</li><li>d. Should possess the mandatory skill sets as per item 2 of this matrix.</li></ul>
2	Mandatory (Must have technical skill sets)	<ul style="list-style-type: none"><li>a. Should have a very 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></ul>



Sl. No	Minimum Required Criteria	Description
		<ul style="list-style-type: none"> <li>b. Must have Sound 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>c. Must have sound experience and expertise in Networking of Servers, Storage on a Multi Stack and cross platform OS environment.</li> <li>d. Sound Experience in Creation and Management of Server and Storage Virtualization using Open Source Unix / Linux tools like Linux KVM etc.</li> <li>e. Should possess the technical know-how of upgrading the Linux Server OD Kernels &amp; Shells as and when required.</li> <li>f. Installation and configuration of Database Servers like PostgreSQL/ MySQL / MSSQL Server / Oracle in Linux and Windows Server Environment.</li> <li>g. Must have Sound Knowledge &amp; Experience in implementing and managing public and private cloud infrastructure using Open Stack Technologies.</li> <li>h. Must have sound experience in Managing Unified Threat Management Systems from Sophos, Cyberoam, CISCO etc.</li> <li>i. Must have sound experience on containers implementation with Docker. And Container Orchestration with Docker Swarm and Kubernetes.</li> <li>j. Must have experience in managing Directory Services in Linux and Windows environments e.g. MS Active Directory Services, Open LDAP etc.</li> <li>k. Must have experience in implementing HA Clustering of physical and virtual servers on Active-Active/Active-Passive mode of clustering in Linux and Windows.</li> <li>l. Must 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>m. Must have the skill and experience in Implementing Network Security Policies and Protocols for data center and devices used in the organization.</li> <li>n. Should possess the skills on implementing MDM in organization.</li> <li>o. Should have the skills of managing SAN, NAS, SAN Switches, UPS and Precision Climatic Control for Servers, Switches and other HW.</li> <li>p. Must have knowledge on SHELL SCRIPTING for automating tasks.</li> </ul>

*G/kt*

Sl. No	Minimum Required Criteria	Description
		<p>q. Must be proficient in various programming language for web application and mobile development for reviewing of the applications for security assessment and or bugs.</p> <p>r. Must have knowledge on GIT and GITHUB so that all the projects are brought under proper versioning system.</p> <p>s. Should have the 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>t. Sound Knowledge in in System and Application Programming languages using C / C++ / Java and PHP/ C#/.NET, JavaScript, HTML, Python, XML, PL/SQL etc.</p> <p>u. Must be able to create and consume Various Web services.</p> <p>v. Creating and managing remote management protocols.</p> <p>w. Should have knowledge about the working of micro-services architecture-based application and monitoring of those services.</p>

**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 lacking in the above Skill Set shall not be considered and they need not apply.***

**B. Preferred Additional Skill Set:**

1. Database Administration and Management
2. Artificial Intelligence and Machine Learning.
3. Good Organizational and Analytical Skills.
4. Should have knowledge on UI/UX using Sketch, Adobe XD.

**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. Database Development and Maintenance for Enterprise Class GIS / MIS Applications under Unix / Linux Server and Windows Server Environments.**

**Objective:** Odisha Space Applications Centre under the Department of Science and Technology, Govt. of Odisha, is the Nodal Organization to provide Geoinformatics Services to Govt. of Odisha. Currently it is executing many large Geoinformatics based IT Projects for various Departments of Government of Odisha and India. Server based Mobile GIS



applications along with Enterprise Class Web GIS Applications are main activities of the center. In these projects Mobile GIS is an integral part to capture and visualize data on Mobile GIS Platforms along with an integrated interface of Enterprise Class Web GIS Applications and all the applications require database spatial database management and administration. Further all the Geo-ICT Applications of ORSAC is getting Web and Mobile GIS Enabled and there is an immediate need to engage **Highly Skilled and Experienced IT Professionals in Database Development and Maintenance for Enterprise Class GIS / MIS Applications under Unix / Linux Server and Windows Server Environments.**

**A. Criteria for Selection and Engagement of a DB Developer and Admins at ORSAC:**

Sl. No.	Minimum Required Criteria	Description
1	Post Technical Qualification Work Experience	<ul style="list-style-type: none"> <li>a. Must have a minimum of 3 (Three) 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.</li> <li>b. Must have at least 3 (Three) Years of 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 Oracle Spatial or Oracle Locator Extensions/ MySQL, SQL Server etc with Location DB Extensions.</li> <li>c. Operating System: Fully conversant in working with UNIX/ Linux Server Operating Systems and Windows Server Operating System.</li> <li>d. Should possess the mandatory skill sets as per item 2 of this matrix.</li> </ul>
2	Mandatory (Must have technical skill sets)	<ul style="list-style-type: none"> <li>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.</li> <li>b. Recovery Manager (RMAN)</li> <li>c. Should be able to monitor health of database, replication servers and DR latency.</li> <li>d. Oracle Real Application Cluster, Oracle Data Guard</li> <li>e. Database Migrations, Patching, Upgradation and Partitioning of Tables.</li> <li>f. Use of Directory Services like Open LDAP</li> <li>g. Database performance tuning using automatic workload repository and Stats Pack.</li> <li>h. Shell scripting and using Bourne Shell, Power Shell.</li> <li>i. Logical Backup and Recovery using Data Pump, Export/Import, Barman</li> <li>j. Advanced knowledge of SQL and PL/SQL</li> <li>k. Knowledge of RDBMS Architecture Concepts.</li> <li>l. Should be able to troubleshoot database issues.</li> </ul>

Sl. No.	Minimum Required Criteria	Description
		m. Should have understanding and proficiency in performance tuning of DBs. n. Remote management of DB o. Creation of DB Webservices p. Working under VPN Protocol & Authentications q. Should have knowledge on Graph databases r. Should be able to identify the blocking queries in the application. s. Should have knowledge of writing optimized queries and reducing joins.

**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 lacking in the above Skill Set shall not be considered and they need not apply.***

**B. Additional and Preferred Skillset:**

1. Linux Server & NW management
2. IT Infrastructure and Web Hosting management.
3. Proficiency in High-level Programming Language like Java, C++ & Python
4. Problem-solving, Presentation and Good Analytical skills
5. The ability to create and maintain strong professional relationships with colleagues and clients.
6. A commitment to continuing professional development (CPD)
7. An understanding of IT legislations like IT Acts and Rules.

**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.**

**4. Web GIS Server Operation and Web GIS Development under Unix & Linux Environment.**

**Objective of Engagement of Open Source Web GIS Server Admin cum Developer:** Odisha Space Applications Centre under the Department of Science and Technology, Govt. of Odisha, is the Nodal Organization to provide Geoinformatics Services to Govt. of Odisha. Currently it is executing many large Geoinformatics based IT Projects for various Departments of Government of Odisha and India. Server base Mobile GIS applications along with Enterprise Class Web GIS Applications are main activities of the centre. In major projects Mobile GIS is an integral part to capture and visualize data on Mobile GIS Platforms along with an integrated interface of Enterprise Class Web GIS Applications. All the Geo-IT Applications of ORSAC



is oriented towards Web-Portal mode with Mobile GIS Enabled and there is an immediate need to engage **Highly Skilled and Experienced Open Source Web GIS Server Admin cum Developer, at ORSAC.**

**A. Criteria for Selection and Engagement of Open Source Web GIS Server Admin cum Developer:**

Sl. No.	Minimum Required Criteria	Description
1	Post-Technical Qualification Work Experience	<ul style="list-style-type: none"> <li>a. Must have a minimum of 3 (Three) Years of full-time working experience in Web GIS and Web Map Servers under Linux and Windows Environment.</li> <li>b. Must have at least 3 (Three) Years of working experience in GIS database design, implementation, maintenance and analysis.</li> <li>c. Should possess the mandatory skill sets as per item 2 of this matrix.</li> </ul>
2	Mandatory (Must have technical skill sets)	<ul style="list-style-type: none"> <li>a. Should have the knowledge and experience to setup and configure GIS Servers like GeoServer, QGIS Server, ArcGIS Server, IGS Geomedia Server etc in Linux and Windows Environment.</li> <li>b. Proficiency in Creation, Installation, Commissioning and Hosting of Web GIS Applications using Open Source GeoServer / Mapserver and ArcGIS Server with other Web GIS tools in Linux and Windows Server Environment.</li> <li>c. Sound Knowledge on Server HW and NW resource and Software Interface and interactions like Processor Core, Memory and Storage Management.</li> <li>d. Programming and Scripting Proficiency in enabling multicore GIS Server support and multitasking operations by clients in using Open Source GIS Servers like GeoServer / MapServer / QGIS Server in Linux and Windows environment and linking the GIS Servers to RDBMS and Spatial Databases like PostGIS / Oracle Spatial / Oracle Locator etc; to undertake spatial queries, sub selects, reprojections, and geometry manipulations and offer various import and export formats.</li> <li>e. Spatial DB (Geodatabase) design and implementation using LBS RDBMS like ArcGIS SDE, PostgreSQL with PostGIS, Oracle Locator etc</li> <li>f. Proficiency in programming languages of Python and R for batch processing, analytics and Graphical Visualization of GIS data sets.</li> <li>g. Proficiency and Experience in Designing and Implementation of Enterprise Class Web GIS Applications using fully Open Source tools in Open Source Unix / Linux Server OS Environment.</li> <li>h. Integration of LBS (location-based Service) enabled Data from Mobile Devices in Web GIS Applications.</li> <li>i. Proficiency in designing Statistical &amp; Graphical Visualization of GIS data and Map Composition on Web GIS Platforms.</li> </ul>

Sl. No.	Minimum Required Criteria	Description
		<p>j. Experience in 3D Modelling on Web GIS using Open Source and Proprietary tools.</p> <p>k. Creation, Deployment and Consumption of Various Web GIS / Web Map Services for Web GIS Applications.</p> <p>l. Sound Knowledge and Proficiency of Operating all popular Desktop GIS and Image Processing SW like ArcGIS, Geomedia, QGIS, ERDAS Imagine etc and working with Large Vector and Raster data Sets and Imageries.</p> <p>m. Experience and Expertise in integrating Web GIS Applications with OpenStreetMap, Google Earth, Google Map and NRSC's BHUBAN Web Map services.</p> <p>n. Sound Knowledge on the Fundamentals of Geodesy involving various types of Map Datums and Projections with their interoperability.</p> <p>o. Sound Knowledge on Multi-Constellation GNSS and clear familiarity with GNSS data sets and its use in Web GIS Server Applications.</p> <p>p. Familiarity and commissioning of Web Based GNSS Correction services provided by IGS and proprietary SBAS services like GAGAN, OmniStar &amp; TerraStar etc.</p> <p>q. Proficiency in designing various types GIS Query Builder and report generators on Web GIS Applications as per requirements.</p> <p>r. Sound Knowledge on all kinds of OGC compliant Web map services like WMS, WMTS, WFS etc</p> <p>s. Proficiency with front end design languages such as HTML, CSS, JavaScript and various mapping languages.</p> <p>t. Experience in running server based automated geoprocessing for large Geodata Sets and data sets obtained from Field GNSS devices like handheld GPS and DGPS through internet protocols.</p> <p>u. Experience with processing GNSS data received by GIS Servers using standard GIS Tools.</p> <p>v. Knowledge experience in processing GPS Survey, DGPS Survey and AutoCAD data.</p>

**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 lacking in the above Skill Set shall not be considered and they need not apply.*

**B. Preferred Additional Skill Set:**

1. HTML, CSS, JavaScript etc.



2. GIS Database Administration
3. Automated Image Processing
4. Handling Big Data under Hadoop Framework.

**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.**

#### **4. Web & Mobile GIS App Development in iOS & Android**

**Objective of Engagement of Web & Mobile GIS App Developer:** Odisha Space Applications Centre under the Department of Science and Technology, Govt. of Odisha, is the Nodal Organization to provide Geoinformatics Services to Govt. of Odisha. Currently it is executing many large Geoinformatics based IT Projects for various Departments of Government of Odisha and India. In these projects, Mobile GIS is an integral part to capture and visualize data on Mobile GIS Platforms along with an integrated interface of Enterprise Class Web GIS Applications. All the Web Geo-IT Applications of ORSAC is getting Mobile GIS Enabled and there is an immediate need to engage **High Skilled and Experienced Web & Mobile GIS App Developer in iOS & Android at ORSAC.**

#### **A. Criteria for Selection and Engagement of a Web & Mobile Application Developer:**

<b>Sl. No.</b>	<b>Minimum Required Criteria</b>	<b>Description</b>
<b>1</b>	Post-Technical Qualification Work Experience	<ol style="list-style-type: none"> <li>a. Must have a minimum of 3 (Three) 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 (both are required); 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 Mobile Applications with Web GIS Application and Geodatabases.</li> <li>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.</li> <li>d. Should possess the mandatory skill sets as per item 2 of this matrix.</li> </ol>
<b>2</b>	Mandatory (Must have technical skill sets)	<ol style="list-style-type: none"> <li>a. Should have experience in developing Enterprise class Geospatially / LBS (Location Based Service) Enabled Mobile Application in Android / iOS using Java / Swift; and publishing them in Google Play Store / Apple's App Store.</li> <li>b. Sound Skills in operating Mobile DB like SQLite etc</li> <li>c. Use of TCP / IP Protocol in Mobile to Server Data Communication.</li> <li>d. Should have knowledge on working with web service on REST/ SOAP/ GRAPHQL/gRPC etc.</li> </ol>

SL No.	Minimum Required Criteria	Description
		e. Must have a fair knowledge on Android's Linux Kernel and Commissioning & Operating Enterprise Class MDM. f. Sound Knowledge on Client-Server Architecture g. Should have minimum knowledge to write web services for the Web GIS & Mobile GIS applications as and when required. h. Should have the skills to present UI/UX designs made with Sketch, Adobe XD etc. i. Should have skills on writing Unit tests for the applications and Software Quality Control. j. Should have skills to comply to issues pertaining to cyber security. k. Should have knowledge about the micro-services-based architecture of application development.

**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 lacking in the above Educational Qualifications, Experience and Skill Sets shall not be considered and they need not apply.***

**B. Preferred Additional Skill Set:**

- a. Installations, Commissions and Management of Linux Server Systems
- b. Application programming with PHP, Python, C++, other Open Source IT Tools and Writing REST APIs and GRAPHQL.
- c. Basic Knowledge on Operating GIS SWs, GIS Servers, Geodatabase and Ethical Hacking skills.

**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.**

  
 20.01.2020

**Chief Executive, ORSAC**  
 Odisha Space Application Centre,  
 Bhubaneswar, Odisha  
 Tel: +91-674-2303625  
 e-Mail: [orsac2012@gmail.com](mailto:orsac2012@gmail.com)  
 Mob-1(AAO): +91- 9437045001,  
 Mob-2 (EO): +91 - 9437470015



**PRESCRIBED APPLICATION FORMAT**

**DOMAIN AREA APPLIED FOR (Mark only one Domain):**

- 1. Unix / Linux Server & Network Admin
- 2. DB Development, Operation & Admin
- 3. Web GIS Server Admin cum Developer
- 4. Web & Mobile GIS App Developer



**Name:**

**Date of Birth:**

**Mobile No:**

**Email:**

**A. Academic and Technical Qualifications:**

<b>Educational &amp; Professional Examinations</b>	<b>Year of Passing</b>	<b>Board/ University</b>	<b>Subjects / Branch</b>	<b>Aggregate percentage of marks*</b>
12 <sup>th</sup> Std / Engg Diploma				
Professional Graduation – Please mention BE / B. Tech / MCA.				
Post-Graduation – ME/M.Tech/MS/ etc.				

(Convert the grades into percentage as per the university norm and mention above)

**B. Post Technical Education Experience, in Production Environment:**

- 1. Server & Network Administration \_\_\_\_\_
- 2. DB Development, Programming & Admin \_\_\_\_\_
- 3. GIS Server Operation & Web GIS Development \_\_\_\_\_
- 4. Web & Mobile GIS Application Development \_\_\_\_\_

**C. Technical Skills possessed by the Applicant:**

1. **Computer Server and NW Mgmt.**
2. **Computer / IT Hardware / SW and Infra**
3. **Photogrammetry & Sat Image Processing**
4. **GPS / DGPS / ETS etc.**
  
5. **Server-Side Programming Languages:**  
(C, Python and JAVA etc.).
6. **Mobile Programming Languages:**  
(Java, Kotlin, Objective C and Swift etc.)
7. **Web Technologies:**  
(Web Services, HTML, JavaScript, jQuery, Angular JS and CSS3 etc.).
8. **Web-GIS:**  
(ArcGIS, JavaScript API, Open Layers, GDAL / GML, OGC Compliant Open Source Tools, Google Map API, GEE etc.).
9. **GIS Servers:**  
(ArcGIS Server and Geo Server, MapServer, QGIS Server etc.).
10. **GIS Desktop:**  
(ArcMap / Geomedia / QGIS etc.).
11. **Server Operating Systems:**  
(Unix, Linux, Windows Server etc.).
12. **RDBMS & Spatial DBs:**  
(SQL Server, PostgreSQL, GeoDB, PostGIS etc.).
13. **NOSQL Database:**  
(Firebase etc ).
14. **Any other Special Skills in IT / ICT**

(Please attach the credentials and add other valid domains other than above mentioned list if applicable)

**D. Mention details of OEM Certifications obtained on Technologies (e.g. Java Certified / Microsoft .Net Certified / ORACLE SQL DB Certified / CISCO Certified / AWS Certified / CMME Certified etc.).**

Sl. No	OEM / Organization	Certification Name & Type	Rating / Class if any	Year of certification
1				
2				
3				

*Please note that "Certification" means, the credentials of proficiency certified by an OEM / Organization, but it is not the certificates issued by any institute against any course or classes attended.*



**E. Key Projects Executed, with enclosed credentials:**

Sl. No	Name of Project	Project Type and Technology Involved	Roles, Responsibility and Domain Handled.	Team Size	Project Output	Client and Employers Address & Details.
1						
2						
3						
4						

**F. Personal Details:**

- a. Address for Communication:
- b. Permanent address:
- c. ADHAR No:
- d. PAN No:
- e. Languages known (Speak / Read / Write):

Place:

Date:

(Full Signature of Applicant)

*Note: It must be noted by the Applicants that , 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 Pay Slip, EPF Registration Number, Copy of the ID Card Issued by the Employer, Copy of the ADHAR Card, Character Certificate issued by a Gazetted officer and any other relevant document are to be enclosed with the Application. Applicants are warned against enclosing any fictitious or fake certificates with the Applications, which shall lead to summary rejection of the Application.*

