

Application has to be submitted on [www.inductusjobs.com/un](http://www.inductusjobs.com/un) “in pdf format only”

**Position:** Re Project Associate- System Architect - Delhi

**Employing Agency (Employer):** Inductus Limited

**Duration of the contract:** 01<sup>st</sup> December 2024 to 31<sup>st</sup> May 2025

**Remuneration:** Gross compensation budgeted for the position is very attractive. Please note that the offer made to the selected candidate shall be commensurate with qualifications, experience, and salary history. It is mandatory to mention the current professional fee, expected professional fee on the job portal [www.inductusjobs.com/un](http://www.inductusjobs.com/un)

**No. of Vacancy: 1 (ONE)**

**Duty Station:** New Delhi

**Reporting Line:**

1. Administrative Supervision- Inductus Limited
2. Technical Supervision- Health Specialist

**Last Date for Application:** 13<sup>th</sup> November 2024 (Mid Night)

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### **CONTENT OF TERMS OF REFERENCE FOR INDIVIDUAL CONSULTANT**

#### **1. BACKGROUND / RATIONALE**

The Ministry of Health and Family Welfare (MoHFW), Government of India, is the lead for multiple primary, secondary, and tertiary healthcare initiatives across India in the public sphere. Managing multiple programs alongside aiding the individual states in their respective health programs is not easy, and more so in a data-challenged environment due to historical reasons.

Given the complexity of integrating and fusing multiple data streams, each with its own unique perspective, the field of view, start point, verifications, silos, and structural and functional mismatch, most efforts at digitising such disparate data streams have not yielded the desired results and visualisations that can lead to data-driven decision making. Add to this the peculiar conundrum of most MoHFW records not including any data from the private healthcare sector in India. This means that most health planners and government officials have a rather incomplete and sketchy picture of the state of health care in India. This lack of reliable, quick, validated data impacts at the grassroots and does not translate into outcomes that can be further analysed and prioritised for relevance, originality and impact (ROI).

Loss of data during data entry (done manually), inconsistent adoption by states, and a lack of predictive analysis imply that most data collected is dated and does not reflect the true picture on the ground. While some states have shown initiative and created their own systems to address local issues, key challenges still need to be addressed. For example, data collection on the same mother/child is repeated by multiple health workers, leading to time/cost over runs.

To address these challenges and to democratise healthcare service delivery and real-time data gathering, the government of India, in collaboration with UN ORGANIZATION, is in the process of developing a cutting-edge healthcare technology stack code-named RCH 2.0 Stack. This innovative stack is designed to embrace the power of “Mobility” and enhance healthcare services for women, children and adolescents as part of the RMNCH outreach of the Government of India. The successful implementation of RCH 2.0 Stack will substantially improve both delivery and recording of healthcare services for these groups in India. This presents a unique opportunity for a Project Associate - Health Systems to contribute to a ground-breaking project with the potential to revolutionise healthcare data management.

## **2. OBJECTIVE/S**

Hiring a Software Architect to assist in objectively overseeing the development of the approved technical architecture, modules and overall RCH 2.0 stack within the Project Management Unit supported by UN ORGANIZATION, India country office is essential for several reasons. Firstly, the Software Architect brings deep operational and technical expertise necessary for ensuring the S/w vendor adheres to given technical templates and timelines for a complex healthcare system like RCH 2.0. Excellent understanding of software development practices, architecture design and technology integration to ensure the system robustness and scalability. Additionally, the Software Architect plays a crucial role in facilitating (along with UN ORGANIZATION project Management team and MoHFW) seamless integration of various modules, databases, and technologies to create a comprehensive healthcare management platform. This integration is vital for the system's efficiency, performance, and ability to handle increased loads effectively. Furthermore, the Software Architect will ensure that quality assurance, compliance and security protocols is adhered too by the vendor as per government mandates. for a healthcare system. Assist in implementing rigorous testing procedures and ensure compliance with healthcare regulations, safeguarding sensitive patient data and ensuring system reliability. Provide technical guidance, align development efforts with project goals and timelines and foster effective collaboration among stakeholders and development teams. In conclusion, hiring a Software Architect for the RCH 2.0 stack development ensures technical excellence, system reliability, regulatory compliance, effective project management and platform readiness.

## **3. MAJOR TASKS TO BE ACCOMPLISHED**

- Responsible for the overall architecture, design and implementation of the proposed solution
- Advise and recommend architecture strategies, processes, methodologies and operating procedures to ensure that the objectives are consistent with project's long-term objectives
- Responsible for institutionalizing industry-standard technology best practices and newer technologies and solutions to upgrade the technology platform and address ongoing risks/ challenges
- Work with other architects and development teams to develop expertise for in-house maintenance of community editions of open-source technologies (as applicable)
- Work with other architects to evaluate newer technology options to improve the application service levels and reduce cost of operations

- Suggest on changes to existing technologies, including obsolescence of such technologies, changes in licensing conditions (if any), etc. and inform stakeholders periodically
- Maintain the system inter-relationship document, which shows the subsystems and modules and their inter-linkages
- Manage and oversee the activities & responsibilities undertaken by development teams
- Participate and contribute to solution architecture design initiatives with stakeholders
- Periodic review of all application SLAs and adherence to these SLAs
- Review & approve all Product Design documents affecting the design & architecture of the system, adhering to all the architecture principles
- Responsible for improving the usability of application user interfaces
- Suggest strategic design and user experience decisions related to new, functions and features, translate concepts into wireframes and mock-ups, for different devices and user experience channels
- Support the solution management and development teams in developing the UX component of the design documents

#### 4. DELIVERABLES AND DEADLINES

SN	Major Task	Specific Deliverable	Date/deadline for completion of deliverable	Estimated travel required
1	Review project milestones and achievements with the implementation team. Compile progress updates and key insights into a comprehensive report.	<ul style="list-style-type: none"> <li>• Present findings and recommendations during fortnightly meetings.</li> <li>• Monthly progress report on the RCH 2.0 development</li> </ul>	12 reports on a monthly basis	NA
2	Review current project architecture with vendor and identify areas for possible improvement. Collaborate with the implementation team to implement approved architectures.	<ul style="list-style-type: none"> <li>• Proposed architectures for expedited project timelines</li> </ul>	Phases 1, 2 and 3	NA
3.	Review project reports and	<ul style="list-style-type: none"> <li>• Analysis of reports</li> </ul>	Every Fortnight	NA

	data to identify bottlenecks and inefficiencies. Conduct root cause analysis to determine underlying issues. Provide recommendations and solutions to address identified bottlenecks.	to identify project bottlenecks – Fortnightly		
4.	Facilitate communication between UN ORGANIZATION and the implementation agency. Clarify technical requirements and expectations from both parties. Ensure alignment and understanding of project goals and deliverables.	<ul style="list-style-type: none"> <li>• Technical report on architect mapping UN ORGANIZATION and the implementation agency</li> </ul>	Every month	NA
5.	Identify potential risks associated with software deliverables. Review existing risk mitigation strategies and contingency plans. Implement proactive measures to address and minimise risks throughout the project.	<ul style="list-style-type: none"> <li>• Review and amend Risk mitigation strategies document for software deliverables as requirements and functionalities evolve</li> </ul>	Phases 1, 2 and 3	NA
6.	Ensure vendor follows best practices in software development. Monitor compliance with documentation standards and version control processes. Review vendor and 3 <sup>rd</sup> party audits to ensure adherence to established protocols.	<ul style="list-style-type: none"> <li>• Compliance report and documentation of standards met</li> </ul>	Monthly	NA

7.	Review software data standards and requirements for the project. Collaborate with the implementation team to ensure project deliverables meet data standards.	<ul style="list-style-type: none"> <li>Alignment of project deliverables with software data standards</li> </ul>	Phase 1, 2 and 3	3 days in each phases = 9 days
8.	Assist in development of QA strategies for software testing and validation. Support integration of RCH 2.0 with existing healthcare Systems	<ul style="list-style-type: none"> <li>Quality assurance strategies note</li> </ul>	Phase 1, 2 and 3	3 days in each phases = 9 days
9.	Review the UI/UX and UAT for ease of use and	<ul style="list-style-type: none"> <li>Training and knowledge transfer</li> </ul>	Phase 1, 2 and 3	3 days in each phases = 9 days
	accessibility during training sessions for the MoHFW and UN ORGANIZATION. Ensure the vendor provides detailed knowledge transfer on RCH 2.0 stack functionality and maintenance.	<ul style="list-style-type: none"> <li>Review of UI/UX and UAT</li> </ul>		

**5. QUALIFICATIONS /SPECIALIZED KNOWLEDGE/EXPERIENCE/ COMPETENCIES(CORE/TECHNICAL/FUNCTIONAL)/ LANGUAGE SKILLS REQUIRED FOR THE ASSIGNMENT (Please use as applicable):**

**Essential**

1. M.Tech. /B.Tech or BE in Computer science, Information technology, or a related field.
2. Must have 10 years of hands-on experience in IT architecture design and implementation, with atleast 8 years of relevant experience in global projects or in software product company
3. 7 years of experience in enterprise-class open-source technologies is required.
4. Should have successfully architected at least two large mission-critical, large transactionvolume, high performance computing projects using open source technologies
5. Experience in IT infrastructure assessment and gap analysis of large mission critical and complex enterprise technology suites, involving digital transformation and automation ofexisting business processes
6. Has strong understanding of Agile development methodology

**Desirable**

1. Experience with cloud platforms like AWS, Google Cloud, or Azure, and understanding of cloud-native solutions. Must have done at least one large-scale software platform deployment with at least a million plus users.
2. Must have comprehensive knowledge of overall software architecture and software engineering methodologies, principles and practices
3. Familiarity with AI/ML concepts and how they can be leveraged in a web environment is a plus. Some experience with big data technologies and data analytics tools.
4. Experience with ABDM National Tech Stack will be an added advantage
5. Industry-recognized certifications in software architecture or related fields.
6. Demonstrated ability to guide a team of developers towards achieving project goals.
7. Experience with the United Nations/UN ORGANIZATION and its specialised agencies is a distinct advantage.

**6. OFFICIAL TRAVEL INVOLVED (ITINERARY AND DURATION)**

Travel to the States for 27 days (In each phase, i.e. Phase-1, Phase-2, and Phase-3 a total of 9 travels per phase each travel will be for minimum 3 days) for 09 months.

**7. DUTY STATION:** New Delhi