

## Short Term Consultant

<b>Organization:</b>	The World Bank
<b>Sector:</b>	Information and Technology Solutions
<b>Department</b>	Technology and Innovation (ITSTI)
<b>Term Duration:</b>	150 days
<b>Location:</b>	Incheon, Republic of Korea
<b>Required Language</b>	English
<b>Closing Date:</b>	7 September 2023

### Background/General Description:

Innovation and partnership bond the five institutions of the World Bank Group (WBG): the International Bank for Reconstruction and Development (IBRD) and the International Development Association (IDA), which together form the World Bank; the International Finance Corporation (IFC); the Multilateral Investment Guarantee Agency (MIGA); and the International Centre for Settlement of Investment Disputes (ICSID). The World Bank Group is one of the world's largest sources of funding and knowledge for developing countries. It uses financial resources and extensive experience to help our client countries to reduce poverty, increase economic growth, and improve quality of life. To ensure that countries can access the best global expertise and help generate cutting-edge knowledge, the World Bank Group is constantly seeking to improve the way it works. Key priorities include delivering measurable results, promoting openness and transparency in development, and improving access to development information and data.

Information and Technology Solutions (ITS) enables the WBG to achieve its mission of ending extreme poverty by 2030 and boosting shared prosperity in a sustainable manner by delivering transformative information and technologies to its staff working in over 130 client countries. ITS services range from: establishing the infrastructure to reach and connect staff and development stakeholders; providing the devices and agile technology and information applications to facilitate the science of delivery through decentralized services; creating and maintaining tools to integrate information across the World Bank Group, the clients we serve and the countries where we operate; and delivering the computing power staff need to analyze development challenges and identify solutions. The ITS business model combines dedicated business solutions centers that provide services tailored to specific World Bank Group business needs and shared services that provide infrastructure, applications, and platforms for the entire Group. ITS is one of three VPU's that have been brought together as the World Bank Group Integrated Services (WBGIS), to provide enhanced corporate core services and enable the institution to operate as one strategic and coordinated entity.

ITSTI includes Technology and Innovation. Technology and Innovation provides a collaboration platform, knowledge hub and accelerator for the experimentation, prototyping and mainstreaming of cutting-edge technologies and innovative business models at the WBG. Collaborates with internal and external stakeholders to explore and scale new capabilities that will enable the Bank Group to fully harness the Digital Age to achieve its mission. Leads enterprise efforts to speed the adoption of transformative and strategic technologies such as Cloud. Provides the know-how, experimentation space, convening power and guidance to deliver improved business solutions using new and emerging technologies such as Blockchain, Artificial Intelligence, Robotics, AR/VR, 3D Printing, Quantum Computing, etc

The ITS Technology & Innovation Lab works with partners around the world to learn, provide guidance, and experiment with the technology so that the WBG can influence the global impact of this technology for its clients. Together with its business partners, the lab explores and develops an extensive number of use cases in a variety of areas and disciplines, such as land administration, agriculture, supply chain, financial markets, and health. The objective is to explore emerging technologies such as Blockchain, Artificial Intelligence (AI), Internet of Things (IoT), Machine Learning and others in order support the World Bank mission.

### **Duties and Accountabilities:**

This position provides for a professional with comprehensive and deep knowledge and expertise of disruptive technologies like but not limited to AI, Machine Learning, Blockchain, Big Data and Analytics, etc. The candidate should demonstrate strong analytical skills and understanding of the technology landscape and market trends, and ability to determine potential impact on the enterprise, both from the IT and business operations perspectives.

The candidate will support the Technology track as part of the ITSTI Lab and lead ITSTI efforts to engage with the WBG tech community and ensure its participation in innovation initiatives and projects across WBG. The candidate will support the ITSTI efforts to evaluate innovative technology fit for addressing development problems and issues faced by the WBG business units and its clients. The candidate will participate or co-lead joint efforts to support use cases with disruptive/innovative technologies from a technical perspective. The candidate may also lead or co-lead technical exploration initiatives on disruptive technologies.

The candidate will promote collaboration with ITS/WBG application, infrastructure and security and Enterprise Architecture teams to develop a cohesive technology and innovation architecture approach to fast-track the adoption of innovative technologies in the overall WBG technology landscape and operations.

### **Specific Duties:**

- Support the development and delivery phases as part of the Innovation Lab and lead efforts to engage with the WBG tech community and ensure its participation in innovation initiatives and projects across WBG.
- Work and partner with ITS and WBG Lines of Business and provide innovation insights and advice in conceptualizing technology strategies and solutions, roadmaps and plans which are specific to their business needs.
- Supporting in exploring potential growth and development of emerging technologies offering which could be implemented across WBG.
- Continuously research and monitor emerging technologies, industry trends, and best practices to stay current with the latest technology developments.
- Contribute to the development of prototypes to show case innovative solutions.
- Deliver contents in a timely manner with clear and easily understandable documents for non-technical audiences.
- Identify and analyze the business requirements and develop solutions that align the client's needs.
- Contribute to identifying market technology trends which create the potential for the World Bank to leverage/accelerate the use of innovative digital platforms and/or hosting solutions.

**Minimum Education/Experience:**

Master's degree in computer science, engineering or relevant field with more than 2 years of experience (bachelor's degree with 4+ years of relevant experience).

**Required Competencies (Skills and Qualifications)**

- Deep understanding of developing web-based applications, DevOps, IaaS/PaaS services in Azure, AWS cloud platform.
- Good knowledge of programming skills and knowledge of front-end software engineering in JavaScript framework (such as Vue, React), CSS, HTML. Proficiency in web programming languages including JavaScript, Python, and Ruby, other relevant languages that are commonly used in web development.
- Familiarity with the Linux command line operations and proficiency in executing commands and navigating the Linux environment.
- Passionate about continuously studying the latest development trends, emerging techniques, and frameworks needed for project requirements.
- Understanding of database (SQL, NoSQL), Docker, version control systems (Git, SVN, etc), asynchronous workflows with a REST API.
- Excellent English writing and proofreading skills.
- Proficiency in writing comprehensive technical documentation, including requirements and specifications for diverse projects.

**Selection Criteria (Preferred Qualifications):**

- Experience with statistics, data visualization, and statistical packages like NumPy, Pandas, Scikit-Learn, Grafana, PyTorch, Matplotlib, or any other JS-based visualization libraries.
- Strong proficiency in writing and speaking, with clear and compelling spoken communication.
- Excellent teamwork and interpersonal skills and communications skills.

**Supervision**

The assignment will be for 150 days until June 2024. The hiring manager will be Stela Mocan, and task team leader will be Jinhee Park, IT Officer, ITSTI.

**Application**

Interested candidates should send their CV/Resume and cover letter to Soyoun Jun, [sjun@worldbank.org](mailto:sjun@worldbank.org) no later than Sept. 7, 2023.