



Sri Lanka CERT (Pvt.) Ltd.

## Individual Consultant to Develop Cyber Security Standards and Guidelines for Emerging Technologies

### **CERT/GOSL/CONS/IC/2024/29**

Emerging technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), Blockchain, Cloud Computing, and Quantum Technologies are rapidly transforming various sectors, offering immense potential for innovation and growth. However, these technologies also introduce significant cybersecurity risks that must be addressed to ensure their safe and secure deployment. This assessment, therefore, Sri Lanka CERT aims to obtain the service of a qualified and experienced consultant to develop cyber security standards and guidelines that can be referred to by the government private, and individuals in their activities related to such technologies. The duration of the assignment is 8 weeks. Eligible Individual Consultants may submit their responses (CV, proposal and other proof documents) as specified in the Terms of Reference. The response should be submitted electronically to [procurement@cert.gov.lk](mailto:procurement@cert.gov.lk) or by hand delivery or post to the Chief Executive Officer (Actg.), Sri Lanka CERT (Pvt.) Ltd, Room: 4-112, BMICH, Colombo 7, to be received on or before 1500 Hrs on 24<sup>th</sup> September 2024. The envelope containing the response should be marked "Individual Consultant to Develop Cyber Security Standards and Guidelines for Emerging Technologies". The detailed "Terms of Reference (TOR)" are available on the procurement tab of the <https://www.cert.gov.lk/> website.

Chief Executive Officer (Actg.)

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# Terms of Reference

## Individual Consultant to Develop Cyber Security Standards and Guidelines for Emerging Technologies

### 1. Background

Emerging technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), Blockchain, Cloud Computing, and Quantum Technologies are rapidly transforming various sectors, offering immense potential for innovation and growth. However, these technologies also introduce significant cybersecurity risks that must be addressed to ensure their safe and secure deployment. This assessment, therefore, aims to obtain the service of a qualified and experienced consultant to develop cyber security standards and guidelines that can be referred to by the government private, and individuals in their activities related to such technologies.

### 2. Objectives:

- **Identify and assess** the unique cybersecurity challenges associated with AI, IoT, Cloud Computing, and Quantum technologies.
- **Develop best practices, guidelines, and policies** for securing these emerging technologies.

### 3. Scope of Work:

The scope of work for this project includes, but is not limited to, the following tasks:

#### a. Risk Assessment:

- Conduct a general risk assessment to identify and analyze the cybersecurity risks associated with emerging technologies such as AI, IoT, Cloud Computing, and Quantum Technologies.
- Evaluate the potential impact of these risks to users, and digital infrastructure

#### b. Framework, Standards and Guidelines Development

- Conduct a comprehensive review of the existing cyber security standards and guidelines on emerging technologies
- Conduct interviews with relevant stakeholders including AI Taskforce.
- Develop cybersecurity frameworks, standards, and guidelines tailored to the unique needs of emerging technologies such as AI, IoT, Cloud Computing, and Quantum Technologies.
- Propose guidelines for secure design, deployment, and operation of these technologies.

#### c. Policy and Regulatory Recommendations:

- Analyze existing cybersecurity policies and regulations concerning AI, IoT, and 5G.
- Recommend policy enhancements and regulatory measures to mitigate cybersecurity risks.

**d. Awareness and Training:**

- Conduct training for CERT to educate them on the cybersecurity challenges and best practices for AI, IoT, Cloud Computing, and Quantum Technologies.

**e. Deliverables:**

- A cyber security risk assessment report on emerging technologies such as AI, IoT, Cloud Computing, and Quantum Technologies
- A cybersecurity framework, standards and guidelines document for AI, IoT, Cloud Computing, and Quantum Technologies
- Policy and regulatory recommendations report.
- Summary reports of stakeholder engagement activities and outcomes.

**4. Deliverables, Timeline and Payment Schedule**

Timeline of the assignment is 8 weeks

Activity and Deliverable	Delivery Date	Payment Schedule
1. Approach	1 week + Contract Award Date	5% of the contract price
2. Cyber Security Risk Assessments of Emerging Technologies	2 weeks + Contract Award Date	15% of the contract price
3. Complete the document on Cyber Security Framework, Technical Standards and Guidelines	6 weeks + contract award date	70%
4. Training for CERT	8 weeks + contract award date	10%

**5. Consultant's Qualification and Experience**

Qualifications (Mandatory)	<ul style="list-style-type: none"> <li>○ B.Sc degree in IT or related</li> <li>○ Masters Degree in Cyber Security or Information Security or related</li> </ul>
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Experience	<ul style="list-style-type: none"> <li>○ Minimum 10 years of Experience in the Information Security Sector</li> <li>○ Demonstrated experience in working with Emerging technologies</li> <li>○ Demonstrated experience in working with international cyber security standards related to emerging technologies</li> <li>○ Demonstrated national-level cyber security experiences</li> </ul>
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## 6. Selection Criteria of Consultant

Evaluation Criteria	Marks
Experience as a consultant	10
Consultant's experience of a similar nature assignments	30
Consultant's qualification	10
Proposal for the assignment	50
Total	100

*The consultant shall score more than 80 marks to qualify for the assignment.*

## 7. Proposal Submission

Interested consultants are requested to submit the following documents:

- A cover letter expressing his/her interest in the assignment.
- Detailed curriculum vitae (CV) highlighting relevant experience and qualifications as mentioned in section 5. Fill Annex 1.
- Proposal covering the scope of service as specified in the Terms of Reference.
- Financial proposal (including the consultant's daily rate and total consultancy fee) for the deliverables presented in section 3 and 4.

# 1. Annex

## CURRICULUM VITAE (CV) FORMAT

*{Notes shown in brackets { } in italic should not appear on the final document to be submitted}*

Position /Title	
Name of Consultant:	<i>{Insert full name}</i>
Date of Birth:	<i>{day/month/year}</i>
Country of Citizenship/Residence	

**Education:** *{List college/university or other specialized education, giving names of educational institutions, dates attended, degree(s)/diploma(s) obtained}*

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**Certifications:** *{List professional institutes, giving names of certification name, dates acquired}*

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**Employment record relevant to the assignment:** *{Starting with present position, list in reverse order. Please provide dates, name of employing organization, titles of positions held, contract amount, types of activities performed and location of the assignment, and contact information of previous clients and employing organization(s) who can be contacted for references. Past employment that is not relevant to the assignment does not need to be included.}*

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
<i>{e.g., May 2012-present}</i>	<i>{e.g., Ministry of ....., Advisor/Consultant to...  For references: Tel...../e-mail.....; Mr....., Director General}</i>		
<i>{e.g., From Jan 2010 to present}</i>			

**Memberships in Professional Associations and Publications:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Language Skills:**

Language	Excellent	Good	Basic	None
Sinhala				
English				
Tamil				

Note: Please tick in relevant box

**Adequacy for the Assignment**

Detailed Tasks Assigned on Consultant:	Reference to Prior Work/Assignments that Best Illustrate Capability to Handle the Assigned Tasks
Experience as a consultant	
Experience as a consultant in assignments of similar nature - Section 3 of the Terms of Reference	

**Proposal**

*The consultant shall submit a proposal for the assignment covering the areas of the Terms of Reference. Price of the*

**Consultant's contact information:** (e-mail ....., phone.....)

**Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

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Name of Consultant

Signature

Date:  
{day/month/year}

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## Proposal – Technical

*The consultant shall develop a detailed technical proposal on covering all aspects of the Terms of Reference*

## Proposal – Financial

*The total fee of the consultant including daily rate, and additional costs (if any)*