INFORMATION TECHNOLOGY UNIVERSITY (ITU)

INDIVIDUAL CONSULTANT REQUIRED

Information Technology University requires the services of Qualified, Energetic & Self-motivated Individual as a short term consultant for its Funded Research Project "Pakistan Leather Sector: Traceability, Cleaner production and Circularity" at IMAL-NCRA Lab, Faculty of Engineering, ITU. Applications are invited for the following consultancy from Individuals who meet the specified criteria:

Sr. No.	Title of Consultancy	No. of Individuals	Qualification & Experience
1.	**Full Stack Lead Architect**	**01**	• Must have Master's Degree or equivalent degree awarded after sixteen years of education in Computer Science/ Information Technology/ Software Engineering/ Electrical Engineering/ Technology Management or an equivalent recognized degree from an institution or a University recognized by HEC. • Relevant experience in full stack development with strong proficiency in front-end technologies (HTML, CSS, JavaScript frameworks) and back-end languages (Node.js, Python, or Java) is required. Candidates with solid understanding of database systems (SQL and NoSQL) and experience with RESTful APIs are encouraged. Additionally, a background in software architecture and cloud services will be preferred for the lead architect position with a strong grip in managing servers and understanding of data security.

1. The above required consultant shall be engaged for short term consultancy by following Punjab Procurement Rules, 2014.
2. Detailed Terms of Reference (TORs) are attached herewith.
3. The duration of the consultancy engagement is six (6) months.
4. Incomplete/pruned (having cutting) / unsigned/ application based on incorrect information received after due date shall be rejected.
5. Only shortlisted individuals will be called for interview.
6. Application along with the credentials must reach in the Procurement Wing of ITU (6th Floor, Arfa Software Technology Park, 346-B Ferozepur Road, Lahore) on or before **16/07/2024**.
7. Only those Individuals having degrees from HEC recognized university/ college/ institute or well reputed foreign university recognized by HEC shall be considered.
8. No TA/DA shall be admissible when called for interview or joining the service.

DEPUTY DIRECTOR (PURCHASE)
INFORMATION TECHNOLOGY UNIVERSITY (ITU)
6th Floor, Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore.
Phone: (042) 111-111-488
Web: www.itu.edu.pk

Terms of Reference (TORs) of Consultant in-house for Project "Pakistan Leather Sector: Traceability, Cleaner production and Circularity" with WWF funded by SMEP

Position Title: Full Stack Lead Architect

Terms of Reference: *SW-Developer - Full Stack Lead Architect position*

Project Duration: (1 August 2024 - 31 March 2026)

Consultancy Duration: 05 months (1 August 2024 - 31 December 2024)

Location: Information Technology University Lahore

Department: Faculty of Engineering

Reports to: Principal investigator (PI), Prof. Dr. Tauseef Tauqeer, and Co-principal investigator (Co-PI), Prof. Dr Rehan Hafiz

Purpose:
To lead the architectural design and development of scalable and robust full-stack applications, ensuring alignment with organizational goals and best practices.

Key Responsibilities:

1. **Architectural Design:**
   - Design and implement scalable software architectures.
   - Evaluate and select appropriate technology stacks.

2. **Collaboration**
   - Work closely with stakeholders to gather requirements and translate them into technical specifications.
   - Collaborate with UX/UI designers to ensure optimal user experience.

3. **Development Oversight:**
   - Oversee the full software development lifecycle (SDLC) from conception to deployment.
   - Conduct code reviews and enforce coding standards.

4. **Performance Monitoring:**
   - Monitor system performance and implement improvements.
   - Lead troubleshooting efforts for complex issues.

5. **Documentation:**
   - Maintain comprehensive documentation of architectural decisions and technical designs.
   - Prepare technical reports for management

Qualifications:
➢ Must have Master's Degree or equivalent degree awarded after sixteen years of education in Computer Science/ Information Technology/ Software Engineering/ Electrical Engineering/ Technology Management or an equivalent recognized degree from an institution or a University recognized by HEC.

Experience/Skills:
➢ Excellent problem-solving and analytical skills.

- Strong communication and collaboration abilities.
- Leadership and mentoring capabilities.
- Relevant experience in full stack development with strong proficiency in front-end technologies (HTML, CSS, JavaScript frameworks) and back-end languages (Node.js, Python, or Java) is required. Candidates with solid understanding of database systems (SQL and NoSQL) and experience with RESTful APIs are encouraged. Additionally, a background in software architecture and cloud services will be preferred for the lead architect position with a strong grip in managing servers and understanding of data security.

Payment mode:
Consultancy Fee/remuneration will be paid on monthly basis provided the satisfactory evaluation repot from the PI.