

An architectural rendering of a modern building with a complex, organic structure made of bamboo. The building features a large, open-air courtyard with a central water feature. The architecture is characterized by its use of bamboo poles and joints, creating a lattice-like framework. The interior spaces are visible through large glass windows, showing a modern, minimalist design. The overall atmosphere is serene and natural, emphasizing the integration of traditional bamboo construction with contemporary architecture.

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International Design Challenge

BAMBOO INNOVATION LAB: A LIVING LAB FOR BAMBOO BASED INNOVATION

First Edition

Register Now!

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Bamboo Innovation Lab

A LIVING LAB FOR BAMBOO BASED INNOVATION

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Introduction

Bamboo Innovation Lab envisions architecture as a living experiment—where material, craft, ecology, and innovation converge. Bamboo, one of the fastest-growing and most versatile natural materials, holds immense potential for sustainable construction, product design, and community-based economies. This competition challenges designers to create a living laboratory that showcases bamboo as a structural, spatial, and cultural resource—bridging traditional knowledge with contemporary innovation.

Participants are invited to design a research, experimentation, and learning hub that demonstrates bamboo's role in regenerative architecture, low-carbon construction, and future-ready design.

Objective

The objective of this competition is to explore bamboo as:

- A primary construction material
- A research and innovation catalyst
- A tool for community engagement and skill development

The design should function as a demonstrative, adaptable, and climate-responsive space that supports experimentation, fabrication, learning, and public interaction.

The Building Program

The Bamboo Innovation Lab may include (but is not limited to):

- Bamboo Research & Testing Lab
- Material Library & Exhibition Space
- Fabrication & Prototyping Workshop
- Training & Skill Development Studios
- Classrooms / Seminar Spaces
- Co-working & Innovation Pods
- Community Interaction Area
- Open Demonstration Courtyard
- Storage & Processing Areas
- Administrative Offices
- Services & Utilities

Designers are encouraged to propose flexible, modular, and scalable spaces.

Site

- Site Selection: Open to participants
- The site may be rural, semi-rural, or peri-urban, preferably in a region where bamboo is locally available or culturally significant.
- Designers must clearly justify site selection based on climate, ecology, accessibility, and bamboo relevance.

Timeline

Launch Date: 1st January 2026

Registration deadline: 8th July 2026

Submission deadline: 18th July 2026

Result Announcement: 24th September 2026

Submission Requirements

Participants must submit:

- Design Panels – minimum 2 panels and maximum 6 panels (panel size: A2, Landscape, format jpeg./jpg.)
- A brief **concept description** (format docs. File)

Drawings may include:

- Concept diagrams
- Plans, sections, elevations
- 3D views / visualizations
- Exploded diagrams or process sketches

Important:

- No participant names, university names, or identifying marks are allowed on the submission sheets
- Design title and slogans are permitted
- Submissions must follow anonymity rules strictly

Jury

The jury panel will consist of experienced architects, designers, educators, and industry professionals from diverse backgrounds. Entries will be evaluated based on:

- Innovation in Bamboo Usage
- Architectural Design Quality
- Sustainability & Environmental Performance
- Research & Learning Integration
- Contextual & Cultural Relevance

The jury's decision will be final and binding.

Eligibility

- Open to all.
- Individual and team entries are allowed
- Team size: [minimum 01 – maximum 4] members
- No restrictions on age, nationality, or academic background

Contact Details

Brief link: https://www.archiolcompetitions.com/competitions/bamboo_innovation_lab

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Organizers

Archiol Competitions

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