

Biomimicry in Architecture

Mimicking the Natural Systems

Nature has given us a lot, and at the same time, we can learn valuable lessons from it. Nature embodies a blend of beauty, intricate systems, resilience and also has its own way of coping and adapting, offering a rich source of creativity and inspiration. Bio-Architecture is a mix of art/creativity and bioinspiration that mimics natural systems to design fascinating buildings and structures. The bio-architecture often blends natural materials, organic shapes, biological inspiration and eco-friendly technologies. These sustainable and innovative structures are adaptable, environment-friendly and better suited to the challenges being faced. So, let's have a glimpse at some of such architecture.

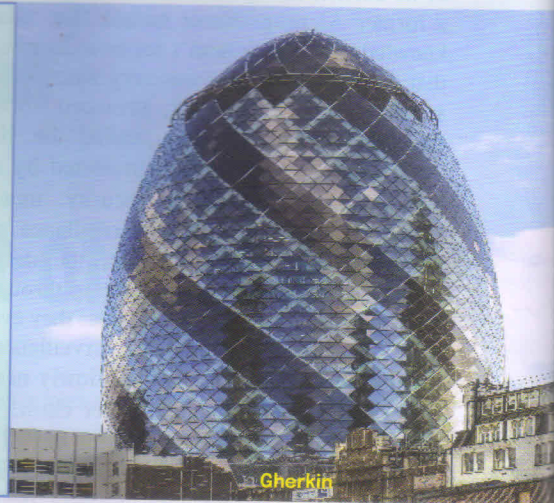


Venus Flower Basket

Image credit: Wikimedia Commons

The Gherkin — Mimicking the Sea Sponge

The mossy leaf-tailed gecko is endemic to Madagascar and is also a CITES II protected animal. The gecko camouflages itself, looking rough and rugged, exactly like the bark. It not only matches the colour of the bark, but the frill around its body makes it completely blend into the bark.



Gherkin

The Eden Project — Biome Design

These giant biodomes in England, inspired by soap bubbles, mimic natural ecosystems inside, including the Rainforest Biome and the Mediterranean Biome. The transparent windows in hexagon and pentagon form consist of Ethylene TetraFluoroethylene Copolymer (ETFE).

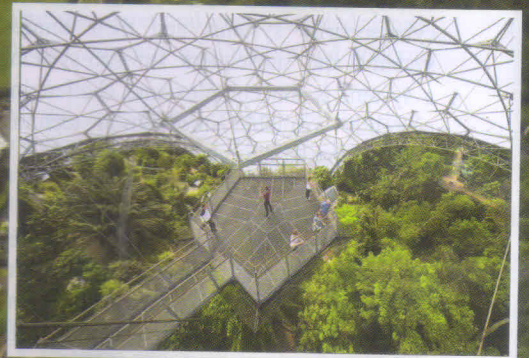


Image credit: edenproject.com