Biomimicry:

What is Biomimicry? How can we emulate nature to seek sustainable solutions to human challenges, and integrate it in our design methodology?

Expert Name: Adib Dada

Founder. Lead Architect

theOtherDada

Short Profile: Adib Dada is the founder of theOtherDada Integrated Architecture Lab; developing creative solutions that have a positive impact. He earned a BAr in Architecture from AUB, a Master's Degree in the Interactive Telecommunications Program at NYU, and completed a Biomimicry Graduate Certificate from the Biomimicry 3.8 Institute and Arizona State University. His interests lie in the transdisciplinary dialogue between architecture, living systems, technology and art.

Definition / Benefits	Constraints / Challenges / Barriers
✓ Biomimicry is the conscious emulation of 3.8 billion years of time-tested wisdom. Simply put, it is design that emulates nature. ✓ Biomimicry could be considered the science behind sustainability, a necessity for us to achieve a sustainable future. ✓ Moving sustainability beyond traditional understanding and into a more holistic approach	✓ innovative/new topic not very well understood ✓ traditional mindset about sustainability and design ✓ cost for research and development ✓ integrating Biomimicry into design curriculum

Best Practice / Solutions / Tools	Resources / local Availability
✓ Looking to natural organisms as in-depth inspiration for design, not in a superficial manner by copying their form, but actually emulating their functions and processes ✓ understanding the ethics behind biomimicry, Life creates conditions conducive to Life ✓ understanding the biomimicry Life Principles and checking that our designs	✓ At the moment I am the only certified Biomimicry Specialist in Lebanon, with 2 others undergoing study at the moment ✓ state of crisis in waste and energy, could lead to innovation ✓ Great human potentail ✓ Using the Knowledge Economy [circular 331] for funding ✓ using the innovation credit in leed / breeam

respect them ✓ inviting a biologist to help us understand the natural organisms we are trying to emulate	