

“I designed this sustainable, energy-producing pavilion for any park with a pond with a decent amount of algae growing inside of it. Surrounded by the abundance of forestation and wildlife, the sculpture would split into 5 arches and fan out into the water. Each of the 5 arches harvests algae from the pond and get equally distributed into diamond-shaped pods. Then, they produce energy for park goers to use, to charge anything from their smart phones to their electric vehicles”

- Chloe Huang , Berkeley Aquatic Park Algae Energy Pavilion (2017)

“One of the advantages of using of using energy efficient designs like biomimicry is that we can engineer a product that is far smaller than competitive products”

- Peter Fiskey , Design in Nature: Biomimicry (2016) , Bloomberg

Findings 1: <https://www.bloomberg.com/news/videos/2016-04-07/design-in-nature-biomimicry>

Lena C, Noa B, Lauren K, Isabelle

“Our built environment can function like these ecosystems, maybe thats the pinnacle of what sustainable design can be.”

- Erin Rovalo, A Skyscraper Made of Bones: How Biomimicry Could Shape the Cities of the Future (2016), CityLab

Findings 1: <https://www.citylab.com/life/2016/09/a-skyscraper-made-of-bones-how-biomimicry-could-shape-the-cities-of-the-future/497969/>  
Lena C, Noa B, Lauren K, Isabelle

“The natural world and ecological system are maybe the best picture for what a sustainable world looks and performs like,”

- Erin Rovalo, A Skyscraper Made of Bones: How Biomimicry Could Shape the Cities of the Future (2016), CityLab

Findings 1: <https://www.citylab.com/life/2016/09/a-skyscraper-made-of-bones-how-biomimicry-could-shape-the-cities-of-the-future/497969/>  
Lena C, Noa B, Lauren K, Isabelle

“biomimicry is the conscious emulation of life’s genius”

- Janine Benyus, Biomimicry: looking to nature to solve human problems (2013), The Guardian

Findings 1: <https://www.theguardian.com/sustainable-business/blog/biomimicry-nature-human-problems-sustainability>  
Lena C, Noa B, Lauren K, Isabelle

“Such scientific innovations inspired by nature are a vitally important part of our transformation to a more sustainable future”

- Janine Benyus, Biomimicry: looking to nature to solve human problems (2013), The Guardian

Findings 1: <https://www.theguardian.com/sustainable-business/blog/biomimicry-nature-human-problems-sustainability>  
Lena C, Noa B, Lauren K, Isabelle

“Humans have always looked to the natural world as a source of inspiration.”

- Erin Rovalo, A Skyscraper Made of Bones: How Biomimicry Could Shape the Cities of the Future (2016), CityLab

Findings 1: <https://www.citylab.com/life/2016/09/a-skyscraper-made-of-bones-how-biomimicry-could-shape-the-cities-of-the-future/497969/>  
Lena C, Noa B, Lauren K, Isabelle

“Take a look at any natural ecosystem, such as a prairie, and you will see a remarkable system of food production: productive, resilient, self-enriching, and ultimately sustainable”

- Biomimicry Institute (2016)

Findings 1: <https://biomimicry.org/biomimicry-examples/>

Lena C, Noa B, Lauren K, Isabelle R

“That’s the end goal for biomimetic design -- making products, systems, and cities functionally indistinguishable from the natural world”

- VoxMedia (2017)

Findings 1: <https://www.youtube.com/watch?v=iMtXqTmfta0>

Lena C, Noa B, Lauren K, Isabelle

“The people who design our world have a lot to learn from the natural world. All they have to do is take a look”

- VoxMedia (2017)

Findings 1: <https://www.youtube.com/watch?v=iMtXqTmfta0>

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“The people who design our world have a lot to learn from the natural world. All they have to do is take a look”

- Lena Blake, Biomimicry: Nature-Inspired Sustainable Design (2017), Rethinking Prosperity

Findings 1: <http://rethinkingprosperity.org/biomimicry-nature-inspired-sustainable-design/>  
Lena C, Noa B, Lauren K, Isabelle

“A sustainable world already exists; we have just recently begun to realize that answers to modern human problems are already all around us”

- Lena Blake, Biomimicry: Nature-Inspired Sustainable Design (2017), Rethinking Prosperity

Findings 1: <http://rethinkingprosperity.org/biomimicry-nature-inspired-sustainable-design/>  
Lena C, Noa B, Lauren K, Isabelle

“We want to help foster bringing more biomimetic designs to market ... to show that biomimicry is a viable and essential design methodology to create a more regenerative and sustainable world”

- Megan Schuknect, Biomimicry: using nature's designs to transform agriculture (2015), The Guardian

Findings 1: <https://www.theguardian.com/sustainable-business/2015/oct/30/biomimicry-institute-sxsw-eco-agriculture-bioinspired>  
Lena C, Noa B, Lauren K, Isabelle

“here are two basic ways to do biomimicry. The direct method is to seek out specific organisms to act as mentors, whether you seek them out in the wild or in published resources. The indirect method is to use principles of nature that others have identified over the years”

- Biomimicry, Autodesk

“Flowers—particularly the way they open and close their petals—were the source of inspiration behind Philips’s Sustainable City Lights. This intelligent, solar-powered light system actually creates an abundance of energy—it generates more than enough power to keep the lights on and any excess electricity is fed back into the grid”

- Martin Smith, Looking at biomimicry through a sustainability lens (2015), The Modern Ape



“We want to mimic her product not only because it is the most efficient design, but also because it is proactive in giving back to the planet—it celebrates abundance.”

- Martin Smith, Looking at biomimicry through a sustainability lens (2015), The Modern Ape

Findings 1: <http://themodernape.com/2015/01/26/looking-biomimicry-sustainability-lens/>

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“Flowers—particularly the way they open and close their petals—were the source of inspiration behind Philips’s Sustainable City Lights. This intelligent, solar-powered light system actually creates an abundance of energy—it generates more than enough power to keep the lights on and any excess electricity is fed back into the grid”

- Martin Smith, HOW IS BIOMIMICRY INSPIRING SUSTAINABLE DESIGN? (2016), Verdical Group

Findings 1: <http://verdicalgroup.com/how-is-biomimicry-inspiring-sustainable-design/>

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“Many of nature’s adaptations result in the conservation of energy and reduction of waste, which are variables of immeasurable interest to engineers and manufacturers”

“Proponents of biomimicry contend that many of the solutions that we will need during the sustainability revolution are to be found in nature: super-efficient structures, high strength bio-degradable composites, self-cleaning surfaces, zero waste systems, low energy ways of creating fresh water and many others”

- VU Bioengineering RET Program, School of Engineering, Vanderbilt University, Biomimicry and Sustainable Design  
- Nature Is an Engineering Marvel (2015), Teach Engineering

Michael Pawlyn, Biomimicry: New Directions in Sustainable Design (2008), Schumacer College

“If future generations are to enjoy a reasonable quality of life then we urgently need to redesign our buildings, our products and our systems to be completely closed loop and running off current solar income”

Michael Pawlyn, Biomimicry: New Directions in Sustainable Design (2008), Schumacer College

Findings 1: <https://www.schumachercollege.org.uk/learning-resources/biomimicry-new-directions-in-sustainable-design>  
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