# THE NANOENGINEERING

What is it? How is it? Why is it?

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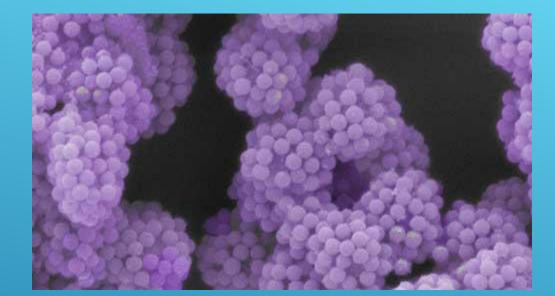


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 Nanoengineering is an interdisciplinary science that builds biochemical structures smaller than bacterium, which function like microscopic factories.



## THE INTRODUCTION



#### First, nanomaterials have a relatively larger surface area when compared to the same mass of material produced in a larger form.

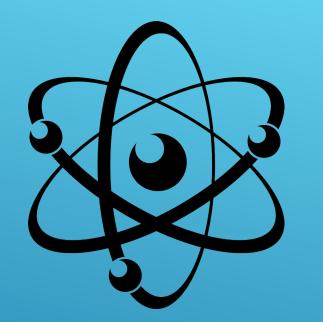
 Second, quantum effects can begin to dominate the behavior of matter at the nanoscale – particularly at the lower end – affecting the optical, electrical and magnetic behavior of materials.

## THE FEATURES OF MATERIALS



The implications of being able to manipulate the "growth" of materials from the atomic level up are enormous. Nanoengineering could potentially lead to a plethora of revolutionary materials and products that would not only benefit areas like aerospace, medicine and technology, but everyday life.

### THE VALUE





#### One of the most exciting aspects of nanoengineering is that it is exceptionally cost-effective, environmentally friendly (raw product is abundant), non-polluting, and requires little energy.

#### THE VALUE



It is widely believed nanotechnology will have a greater impact on the world than the Industrial Revolution and is predicted to be a multi-billion dollar business by 2021.

### THE RESULTS



#### https://www.nanowerk.com/nanoengineering.php

https://www.wisegeek.com/what-is-nanoengineering.htm

### THE SOURCES



### THANK YOU FOR YOUR ATTENTION

