

Coming to the Corvette Museum Jan. 14 - Apr. 15, 2012!

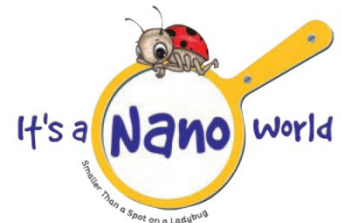
# It's a Nano World!

Smaller than a Spot on a Ladybug



Introduces children and their families to the biological wonders of the nano world that's too small to see with just your eyes.

Designed for 5-8 year olds.



## What is NANOBIO TECHNOLOGY?



Nanobiotechnology is a big word made up of three parts:

**NANO** is really, really tiny,

**BIO** is living things, and

**TECHNOLOGY** is about tools.

All together it means using very tiny tools to learn about living things.



## Book Your Group!

\$4 per student age 6-16

\$3 per student age 5 and under

One free teacher per 10 students

Bus drivers are free

Price includes special exhibit and Corvette exhibits.

Call for advanced reservations:

Chris Sweeney

270-467-8808 or [chris@corvettemuseum.org](mailto:chris@corvettemuseum.org)

Boxed Lunches \$4 per student

(sandwich, chips, cookie and a drink)

[www.corvettemuseum.org/teacher](http://www.corvettemuseum.org/teacher)

## Learning Goals

This is an exhibition about really, really tiny things that are too small to see with just your eyes. Scientists can make and use special tools to study these tiny things.



Specific age appropriate learning goals have been developed and tested with diverse audiences.

- Amazing things happen that are too small to see with just your eyes.
- Scientists and kids can use tools to observe these small things.
- There are many small things inside my body.
- All living things are made of cells.
- Nano is really, really small.



# It's a Nano World Exhibit Descriptions



## Gateway

A large walk-through archway leads visitors into the exhibition and provides an introduction to the nano world. This area introduces the word *nanobiotechnology* and graphic tools such as the ladybug with a magnifying glass icon that is used throughout the exhibition.



## Look Closer! Guess What I am

Visitors can view highly magnified photographs of familiar objects and uncover photos with decreasing levels of magnification until an easily recognizable photo of the item is revealed.



## Powers of Ten Film

Visitors can sit down and watch a modified version of the short *Powers of Ten* film by Ray and Charles Eames. This mesmerizing film makes viewers feel like they are traveling on a diminishing scale, taking them all the way from a view of the earth from outer space down to the molecular level inside the hand.



## How Many Nanometers Tall Are You?

Visitors can measure their height using a measuring tool with a height slider.

## Cell Sorters

Visitors can stick their hands into a glove box and use special tools to separate out different cells based on their physical properties. Visitors will be able to try out two ways to sort the same collection of "cells" (balls of identical size and appearance but with different "invisible" properties). The balls have different weights and magnetic properties, and some appear fluorescent under black light.



## Giant Magnifying Glass

Visitors can look through either of two giant magnifying lenses to see each other and things across the room in more detail.



## Magnification Station

At this table-top station visitors can use magnifying glasses and microscopes of varying strengths to look at shells, cloth, rocks, and more.



## Scope on a Rope

Visitors can look at their own skin, hair, clothing etc. with this flexible projection microscope. One microscope magnifies at 30x, the other at 200x.



## Cells in Motion and Tiny Tools Videos

This theater environment will place visitors in the midst of a world of living moving cells and how scientists study them. Two videos, *Cells in Motion* and *Tiny Tools* play one after the other.



## What's My Job?

Visitors will be able to test and reinforce their knowledge of vocabulary and functions of different small things including different types of cells, germs, and DNA.



## How big am I?

At this matching game, a visitor compares the size of blood cells, a girl, a shoe, DNA, and an elephant.



## Adventures in Tiny Things:

Some tiny things like germs, dust, and pollen can have a big effect on your body. Play three different pinball style games

**Dust Tippy Table,**  
**Pollen Pinball,**  
and the  
**Germ Launcher.**



## Giant Blood Drop

Young visitors can jump into a pit with thousands of small red plastic balls. The size of the pit represents a drop of blood and each red ball represents a red blood cell. A small number of white fluffy balls represent white blood cells.



## Scale Gallery

This interactive collage features microscopic entities at 10,000x life size including: a red blood cell, white blood cell, nerve cell, skin cell, germs (bacteria and viruses), DNA, and computer chips.