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We will illustrate the relationship between the macroscopic, microscopic, and nanoscopic worlds. In order to learn small technology, a steady stream of relevant denitions, illustrations, and exercises will be presented. is chapter will also summarize micro/nanotechnology and show where it will be discussed in the future

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Bio-Micro and Nanotechnology.  
Developing molecular-scale materials

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and lab-on-a-chip devices to sense, manipulate, and re-engineer molecular and cellular structure and function. By applying semiconductor fabrication techniques to biology, our researchers can create next-generation tools used in life science research, drug development and screening, genomics, disease diagnosis, and environmental monitoring.

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The concept and potential of nanotechnology was first introduced by Nobel-Prize winning physicist, Richard Feynman, in his 1959 lecture, "Plenty of Room at the Bottom," presented to the American Physical Society. With advancements in technology, Feynman's theories are now being realized across a wide spectrum of industries.

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around the world offer a total of 304 degree programs in nanotechnology fields. Now the bad news:

Nanotechnology is not an industry; nor is it a single technology or a single field of research.

## **Nanotechnology education - where and what to study**

Summary: Learning Bio-Micro-Nanotechnology is a primer on micro/nanotechnology that teaches the vocabulary, fundamental concepts, and applications of micro/nanotechnology in biology, chemistry, physics, engineering, electronics, computers, biomedicine, microscopy, ethics, and risks to humankind.

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A conceptual framework for nano-bio interfaces can be structured based on two overarching themes (Fig. 1). First, nanotechnology enables new ways to measure and detect biology both in vitro



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and in vivo. For instance, nanoscale devices can sense minute differences at the level of single molecules and single cells.

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The National Nanotechnology Initiative (NNI) in the United States define Nanotechnology as “a science, engineering, and technology conducted at the nanoscale (1 to 100 nm), where unique phenomena enable novel applications in a wide range of fields, from chemistry, physics and biology, to medicine, engineering and electronics” .  
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The term "nano-technology" was first used by Norio Taniguchi in 1974, though it was not widely known. Inspired by Feynman's concepts, K. Eric Drexler used the term "nanotechnology" in his 1986 book *Engines of Creation: The Coming Era of Nanotechnology*, which proposed the idea of a nanoscale "assembler" which would be able to build a copy of itself and of other items of arbitrary complexity ...

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