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Nanoscience
involves studying
the application of
things that scale
between 1 and 100

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nanometers. In this

field of study,

scientists and

engineers use

nanotechnology

engineering to

manipulate

individual atoms

and molecules and

create

nanotechnology,

which operates at a

microscopic level.

This process of

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nanotechnology
engineering is used
to produce
materials with
enhanced
properties, like
higher durability
with less physical
mass.

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Nanotechnology is
science,

engineering, and
technology

conducted at the
nanoscale, which is
about 1 to 100
nanometers.

Physicist Richard
Feynman, the
father of
nanotechnology.

Nanoscience and

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nanotechnology
are the study and
application of
extremely small
things and can be
used across all the
other science
fields, such as
chemistry, biology,
physics, materials
science, and
engineering.

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materials that have
unique properties
because their
structures are...

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focuses on
nanoscale science,
engineering, and
technology that
have the potential
to make valuable
advances in
different areas that
include new
materials, biology
and medicine,
energy conversion,
sensors, and

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environmental
remediation, to
name a few.
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the heart of
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whether it leads to
advances in

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other disciplines.

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Integration of
functional micro-
nanostructures and
surfaces towards
intelligent micro-na-
no manufacturing
This topic aims at
presenting novel
approaches or
improvements in
fabrication of
nanostructures,
surfaces or
nanomaterials in

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0D, 1D, 2D, or 3D
including, as well
as demonstrating
(multi)functionality
and other
properties of the
nanostructures or
surfaces.

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(CeNSE) was
established in 2010
to pursue
interdisciplinary
research across
several disciplines
with a focus on
nanoscale systems.
Current research
topics include, but
are not limited to
nanoelectronics,
MEMS/NEMS,

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nanomaterials and
devices, photonics,
nano-
biotechnology, An
solar cells and
computational
nano-engineering.

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(CeNSE), IISc ...*

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the practice of

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material or
structure are used
to create a device
to be utilized by
mankind.

*UC San Diego
NanoEngineering
Department
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Nanoengineering is the practice of engineering on the nanoscale. It

derives its name from the

nanometre, a unit of measurement equalling one billionth of a meter.

Nanoengineering is largely a synonym for

nanotechnology,

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but emphasizes the engineering rather than the pure science aspects of the field.

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Nanotechnology is the engineering of functional systems at the molecular scale. This covers both current work

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and concepts that
are more
advanced. In its
original sense,
nanotechnology
refers to the
projected ability to
construct items
from the bottom
up, using
techniques and
tools being
developed today to
make complete,

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high performance
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*Nanotechnology -
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Completed in 2017,
the
Nanoengineering
and Sciences
Building was
designed to
promote
collaboration and
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research through
its 53,000 square
feet of flexible,
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laboratory and
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space, active
learning classroom,
"incubator-style"
office space,
meeting rooms,
and communal
areas.

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The Device Science
and

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program in The
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wide range of
research topics
from electrooptics
to quantum
computing. The
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program
incorporates a
range of
technologies that
make use of optical
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utilizing materials
essential to
modern society
Excellence in
education and
research is the
guiding principle
for the Department
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We are dedicated
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producing the
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the future.

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Nanoscience is an

“interdisciplinary

science”, which

means that it

involves concepts

of more than one

discipline, such as

chemistry, physics,

etc. There are

other disciplines

that are inherently

interdisciplinary,

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like materials
science (and
engineering),
which cover at the
same time
concepts of
chemistry and
physics.

Chapter 1-
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However,

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nanoscale science
is an
interdisciplinary
field – one where
science and
engineering
intersect. Studying
science or
engineering and
paying attention to
the developments
in nanoscience that
advance these
fields can provide

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