



NSTDA

THE NATIONAL SCIENCE AND TECHNOLOGY DEVELOPMENT AGENCY (NSTDA)

NSTDA AT A GLANCE



Introduction

Vision

NSTDA will function as the **national powerhouse** in science, technology, and innovation for the government, private and public sectors to improve and strengthen research and innovation ecosystem that can eradicate major obstacles leading to a great leap in nation development.

Mission

NSTDA aims to strengthen Research Development Design and Engineering which is an initiative to enable Technology Transfer and aims to support Human Resource Development and Infrastructure in Science and Technology. In order to build the Nation's Competitiveness and Sustainable Development, NSTDA has underpinned effective internal management to support the operations under the agency.



Core Value

- **N**ation First
- **S**&T Excellence
- **T**eamwork
- **D**eliverability
- **A**ccountability & Integrity



National Goal

- **20-year National Strategy**
- **Thailand 4.0, S-Curve Industry**
- **Innovation-based Economy**
- **Preparing Thai People for the 21st Century**

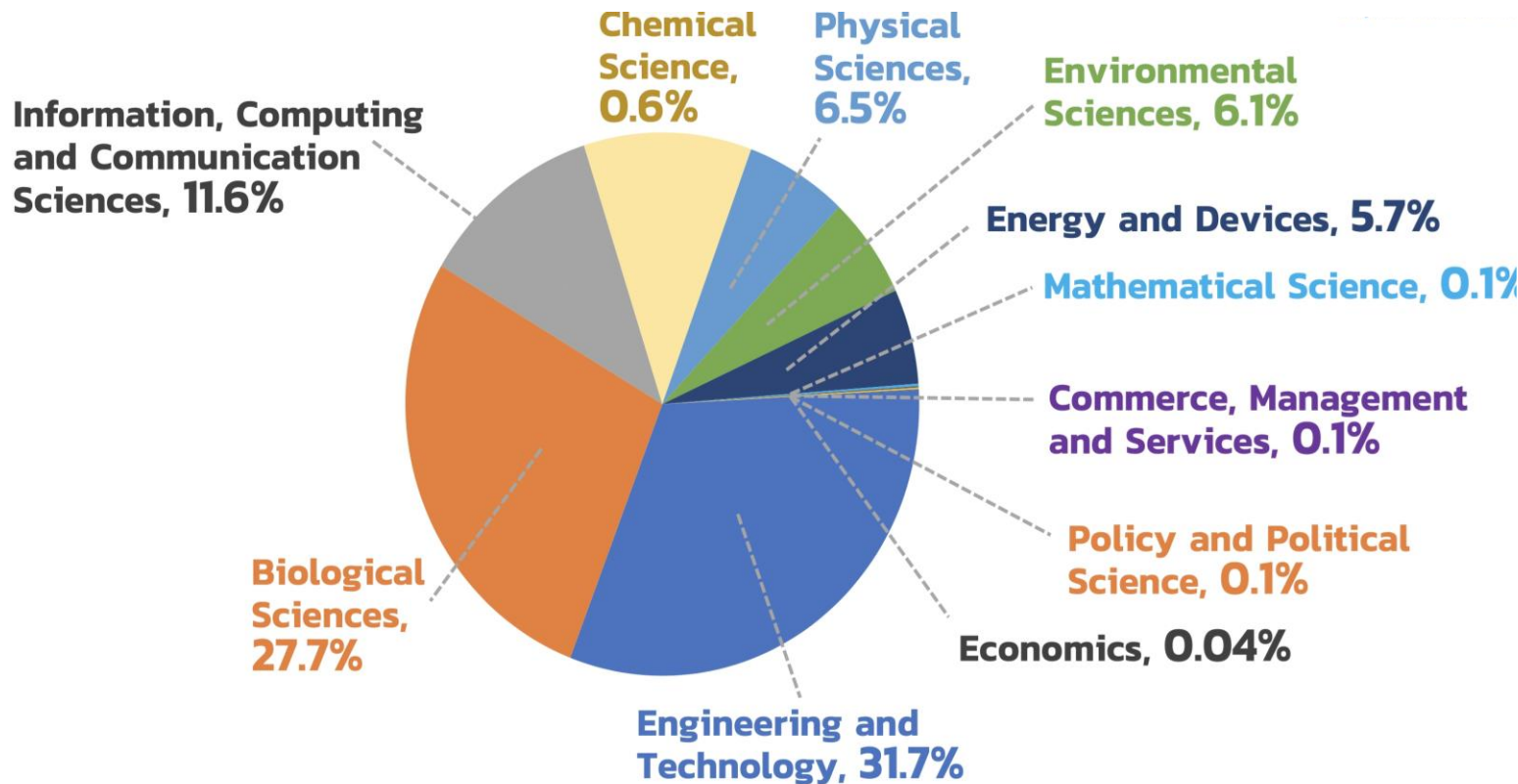
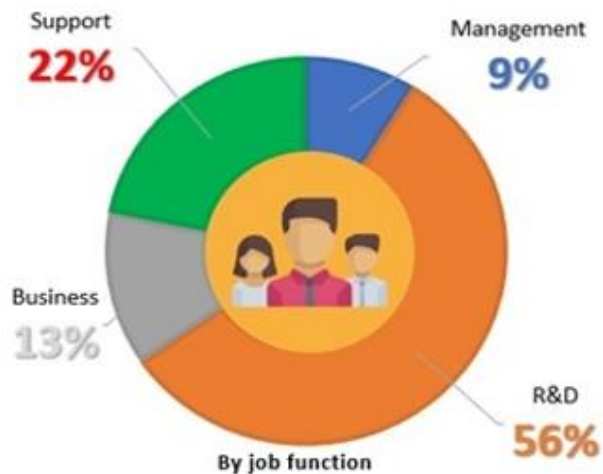
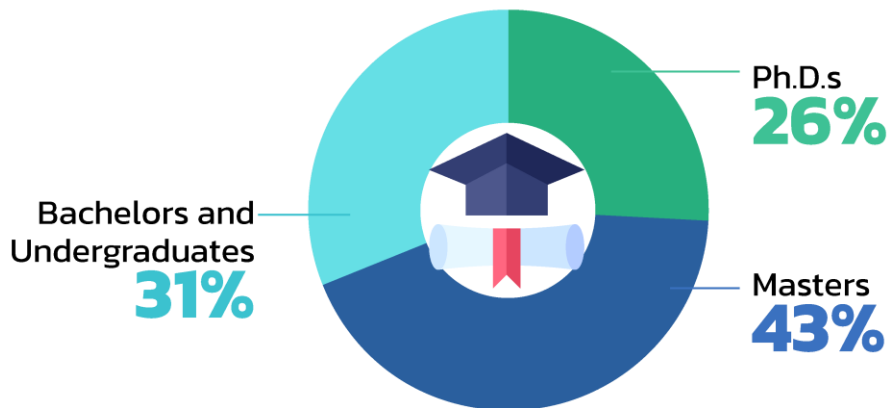
STI-driven Economy



Key Figures



Human Resource: 2,915 employees



Expertise of Research Staffs



Research, Development, Design and Engineering (RDDE)

5 NSTDA Pillars



**Biosciences
and
Biotechnology**

(BIOTEC)



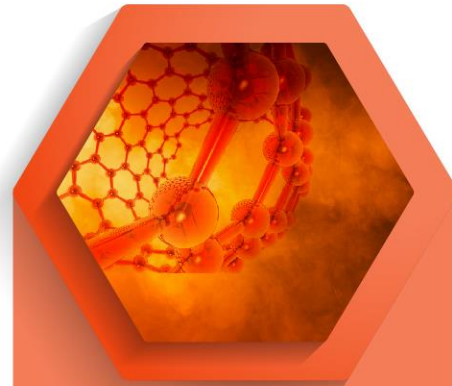
**Materials
and
Manufacturing
Technology**

(MTEC)



**Electronics
and
Information
Technology**

(NECTEC)



**Nanosciences
and
Nanotechnology**

(NANOTEC)



**Energy
Technology**

(ENTEC)

Strategic Plan 2024 - 2028



Strategy 1



Drive **BCG**
Implementation
Plan

Strategy 2



Collaborate
with **strategic**
partners

Strategy 3



Implement
platform
technology to
support the
national **S&T**
ecosystem

Strategy 4



Upgrade
resource
management
with NSTDA
One

RESEARCH-INNOVATION RESPONSE TO ESSENTIAL NEEDS EXCELLENCE LIFE/ ECONOMIC SECURITY

* Led by Private, Supported by Government

* Research and Innovation focusing on critical issues:



Go Green



Sustainability



Clean Energy



Sufficiency



Carbon
Neutrality



Bioeconomy



Eco-Friendly



Creative
Economy



Artificial
Intelligence
(AI)

MS. SUPAMAS ISARABHAKDI
MINISTER OF MINISTRY OF HIGHER
EDUCATION, SCIENCE, RESEARCH
AND INNOVATION'S POLICY



Thailand's BCG Model



Bioeconomy

Involves the production of renewable biological resources and the conversion of these resources into value added products



Circular economy

Aims at reusing and recycling resources



Green economy

Determines to keep economy, society and the environment in balance, leading to sustainable development



FOOD AND AGRICULTURE



MEDICAL AND WELLNESS



ENERGY, MATERIAL AND BIOCHEMICAL



TOURISM AND CREATIVE ECONOMY

BIODIVERSITY



CULTURAL DIVERSITY

01 Policy and Management

02 Science, Technology and Innovation

03 Participation from All Sectors

BCG in Action

BCG Implementation 11 Battles

Core Business



Industry i4.0



Functional Food
and Functional
Ingredients



Digital
Healthcare



Traffy Fondue
(Citizen Engagement
Platform)



High-Value
Extracts



Platform for
Disabled &
Elderly



Indicators and
databases for
CO2, CE, SDG



Thung Kula
Rong-Hai
(Area-based
Development)



Diabetes &
Kidney Test
Kit



Animal
Vaccines



National AI
Ecosystem

NSTDA INFRASTRUCTURE

- National Biobank of Thailand (NBT)
- National Omics Center (NOC)
- NSTDA Supercomputer Center (ThaiSC)
- Technology and Informatics Institute for Sustainability (TIIS)
- NSTDA Characterization and Testing Service Center (NCTC)
- Electrical and Electronic Products Testing Center (PTEC)
- Industrial Ceramic and Houseware Product Testing Center (CTEC)
- Design&Engineering Consulting Service Center (DECC)
- Toxicology and Bio Evaluation Service Center (TBES)



Innovation Hubs



Thailand Science Park

- 136 corporate tenants
- 89 incubator clients/year



Food Innopolis

- Food Innopolis at the Thailand Science Park
- 18 network locations nationwide



Software Park Thailand

- 37 corporate tenants



Eastern Economic Corridor of Innovation (EECi)

An ecosystem to translate research and innovation into sustainable regional economic development and societal well-being



NSTDA



THANK YOU



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