

THAILAND OF INVESTMENT

Where success stories begin

Biotechnology



Yours could be the next success story



THAILAND BOARD OF INVESTMENT
www.boi.go.th

Thailand Rapidly Becoming Regional Medical Hub

- ❑ **Most private hospitals are gearing toward treating patients from other countries/serving approximately 1,400,000 patients a year**
- ❑ **Thai doctors study abroad, speak international languages and are among the best in the region**



Science Park

- ❑ **Thailand Science Park: an incubation center for science-related investment**
- ❑ **Support Includes:**
 - ✓ Assistance in finding and acquiring technology
 - ✓ Analytical and technical services
 - ✓ Intellectual property services
 - ✓ Quality management services
 - ✓ Maximum BOI Incentives



National Biotechnology Policy Framework 2004 – 2011 (1 of 2)

- ❑ Collaborative plan between the NESDB, National Science and Technology Development Agency, and National Center for Genetic Engineering and Biotechnology**
- ❑ Promotional activities and tax incentive packages expected to bring THB 5 billion investment in R&D and lead to THB 30 billion of revenue a year in the sector**
- ❑ Increase food production to become “The Kitchen of the World,” along with increased safety and quality inspection capacity**



National Biotechnology Policy Framework 2004 – 2011 (2 of 2)

- ❑ Support expansion of biomedical infrastructure and human resources, promote locally produced health care products**
- ❑ Applications for agricultural outputs to be used in alternative energy production**
- ❑ Use of biotechnology to promote a self-sufficient economy**



Biotech Infrastructure

**National Center for Biotechnology
(BIOTEC)**

Thailand Science Park (TSP)

Research Services

Kasetsart University

(Plant Genetic Engineering Unit, DNA Fingerprinting Unit, and the Bioservice Unit, which provides biomolecular resources for researchers from both the public and private sectors)

Mahidol University

(Microbial Genetic Engineering Unit and Medical Biotechnology Center at Siriraj Hospital)

Chulalongkorn University

(Marine Biotechnology Laboratory)

King Mongkut's University of Technology

(Biochemical Engineering and Pilot Plant Unit)



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National Center for Biotechnology (BIOTEC)

Established in 1983

- ❑ Part of the National Science and Technology Development Agency (NSTDA)
- ❑ Allocates approximately \$200 million annually for research
- ❑ 30% for research infrastructure and services
- ❑ 70% for direct grants
- ❑ **BIOTEC have a total of 490 staff members.**
As of 30 September 2005, BIOTEC had a total of 490 full time staff, of which 63% were devoted to research. The number of Ph.D. researchers is 119 and this is expected to grow to 220 by 2017, the majority of which will come from overseas education on government scholarships. BIOTEC is publicly funded.



Thailand Science Park (TSP)

- ❑ 80-acre park 20 km from Bangkok
- ❑ Provides lab space, greenhouses and living accommodations
- ❑ Also offers legal and managerial assistance
- ❑ Offers ready made lab space and leases land lots for construction

Research Services



- ❑ **BIOTEC, through Thailand Science Park, provides basic research services**
- ❑ **Private companies and university research labs provide specialized services**
- ❑ **TSP offers support importing products not found locally**



Biotech Specialties

- ❑ **Agriculture (Rice, Pest resistant Tomato, Pepper and other vegetables, Cassava, Ornamental Flowers, Shrimp)**
- ❑ **Animal Testing Alternatives**
- ❑ **Tropical Diseases**
- ❑ **Food Handling**



New Incentives for Biotechnology

- ❑ Exemption of import duty on machinery and an eight-year corporate income tax break without investment cap and zone.
- ❑ Projects located in science and technology parks will receive a 50 per cent reduction of corporate income tax for 5 years after the exemption period.

