



## Collaborative Activities with Industry at Tokyo Institute of Technology

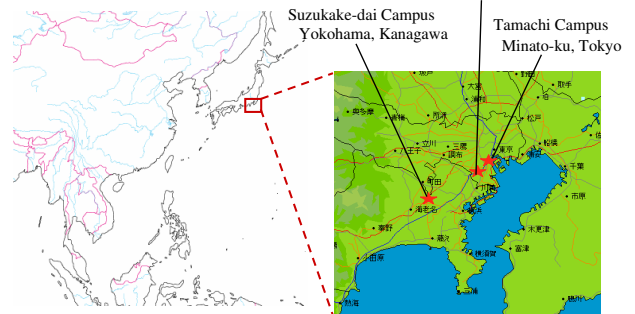
Associate Professor Jun-ichi SAKATA  
Associate Professor Mitsuaki HOSONO

Office of Industry Liaison  
Tokyo Institute of Technology (Tokyo Tech)



## Tokyo Institute of Technology (Tokyo Tech)

O-okayama Campus  
Meguro-ku, Tokyo



## Profile of Tokyo Tech

- Established in 1881
- Present Overview
  - Legal status : National University Corporation
  - 6 graduate school,s 3 under graduate schools, 4 affiliated laboratories, and other facilities, centers, etc.
  - Faculty members : **1,141**  
(Professors : **388** Associate professors: **351**)
  - Number of students : **10,036** (graduate students : **5,096** )
  - International students : **1,038**(graduate students : **611**)
  - Total annual budget : **45,944 million** yen
  - Research Potential : About **10,000** papers are published in authorized scientific journals

(As of May 1, 2007)



## Schools and Labs at Tokyo Tech

### Undergraduate schools

- Science
- Engineering
- Bioscience and Biotechnology

### Graduate schools (45 departments in total)

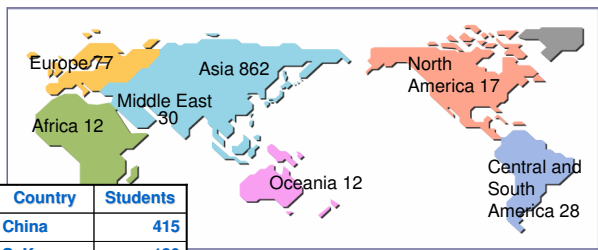
- Science and Engineering
- Bioscience and Biotechnology
- Interdisciplinary Graduate School of Science and Engineering
- Information Science and Engineering
- Decision Science and Technology
- Innovation Management (MOT)

### Four affiliated laboratories

- Chemical Resources Laboratory
- Precision and Intelligence Laboratory,
- Materials and Structures Laboratory
- Research Laboratory for Nuclear Reactors



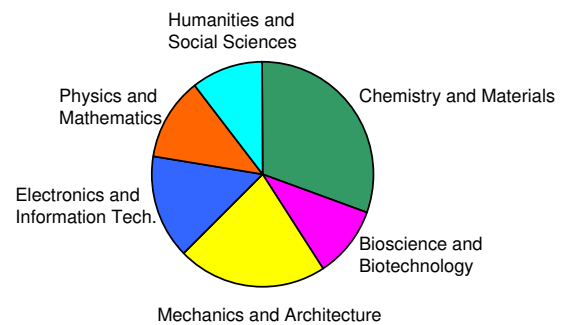
## International Students in Tokyo Tech



Total 1038  
(As of May 1, 2007)



## Research Fields of 1141 Faculty Members

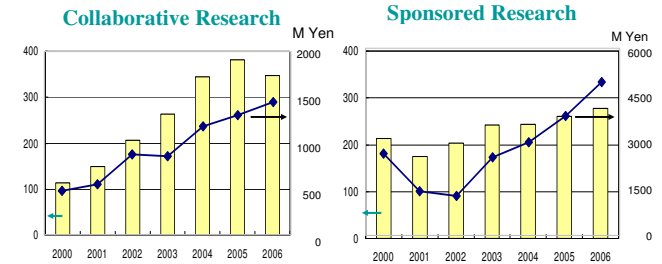


**TOKYO TECH** Pursuing Excellence  
**Rating of Tokyo Tech Research**  
 Top 30 Univ. for Technology (Top 6 and Asia Univ. excerpted)  
 by Times Higher Education Supplement Nov.9, 2007

1	Massachusetts Institute of Technology	US
2	University of California, Berkeley	US
3	Stanford University	US
4	California Institute of Technology	US
5	University of Cambridge	UK
6	Imperial College London	UK
...	...	...
9	University of Tokyo	Japan
10	National University of Singapore	Singapore
16	Tsinghua University	China
22	<b>Tokyo Institute of Technology</b>	<b>Japan</b>
23	Hong Kong University of Science & Technology	Hong Kong
25	Nanyang Technological University	Singapore
29	Kyoto University	Japan

**TOKYO TECH** Pursuing Excellence  
**Research Collaboration between Tokyo Tech with Industry**

Number (□) with Fund Amount (◆)



**TOKYO TECH** Pursuing Excellence  
**Collaboration Schemes of Tokyo Tech with Industries**

Schemes with Contracts

**Collaborative Research :**

Place =Tokyo Tech and Collaborator's place  
 Researchers=Faculty Members\* and Collaborator's Researchers

**Sponsored Research :**

Place =Tokyo Tech  
 Researchers=Faculty Members\* \* including PostDoc

**Sponsored Researcher :**

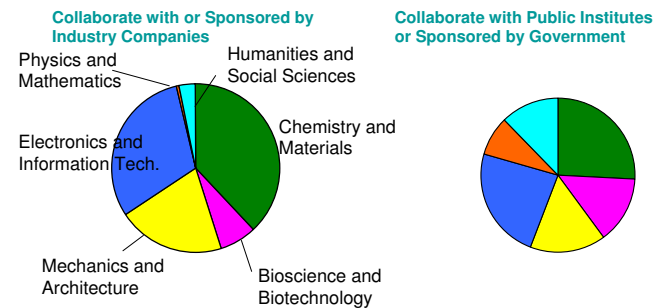
Researchers from Sponsor  
 to Conduct Tokyo Tech's or Sponsor's Research at Tokyo Tech

Schemes without Contracts

Donation for Research

Visiting Researchers

**TOKYO TECH** Pursuing Excellence  
**Number of Research Activities by Research Fields - Collaborative and Sponsored Research**



220 out of 1140 faculty members are involved in the collaborative research with or sponsored research by Industry Companies in FY 2005

**TOKYO TECH** Pursuing Excellence  
**Research Alliances with Outside Organizations**

Manufacturing companies

- SANYO Electric CO.,LTD.
- FUJITSU LABORATORIES LTD.
- Mitsubishi Chemical Corporation
- Mitsubishi Electric CO.,LTD.
- Matsushita Electric Industrial CO.,LTD.
- TOPPAN PRINTING CO.,LTD.
- Sumitomo Chemical Corporation
- Canon Inc.
- The Semiconductor Technology Academic Research Center ( STARC)

Non-manufacturing companies

- Mitsubishi Corporation
- Sumitomo Mitsui Banking Corporation

NPO

- Kanagawa Academy of Science and Technology

**TOKYO TECH** Pursuing Excellence  
**How to deal with patents from research (1)**

Collaborative Research:

- Sole Invention by Tokyo Tech: Tokyo Tech is Right holder  
 → Tokyo Tech will apply solely in principle.
- Sole Invention by Collaborator: Collaborator is Right holder  
 → Collaborator will apply solely.
- Co-invention: Tokyo Tech and Collaborator jointly invent the invention  
 → Tokyo Tech and Collaborator will apply jointly in principle.

Sponsored Research:

- Sole Invention by Tokyo Tech: Tokyo Tech is Right holder  
 → Tokyo Tech will apply solely in principle.

Co-invention without Research Contract

- Tokyo Tech and Outside Institute are Right holders  
 → Tokyo Tech and Collaborator will apply jointly in principle.



## How to deal with patents from research (2)

### Sole Invention under Collaborative/Sponsored Research

Tokyo Tech will solely apply in principle, but may apply jointly with the collaborative/sponsored company after transferring a part of Right .

### Co-invention

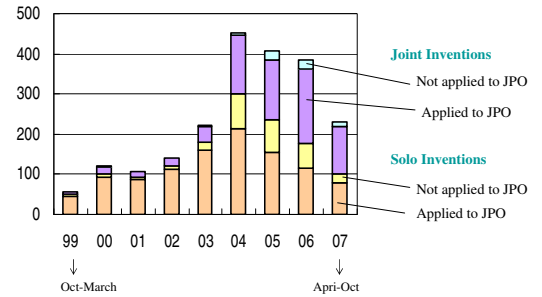
Tokyo Tech and the company will apply jointly in principle. However, some proportion of the right is transferred from Tokyo Tech to the company, and the company will apply solely.

Tokyo Tech will decide how to apply for patent taking the following matters into considerations.

- Contents of Invention,
- Situation of Invention Creation,
- Outside Institute's Intention,
- Inventor's Intention, etc.



## Solo Inventions and Joint Inventions in Tokyo Tech

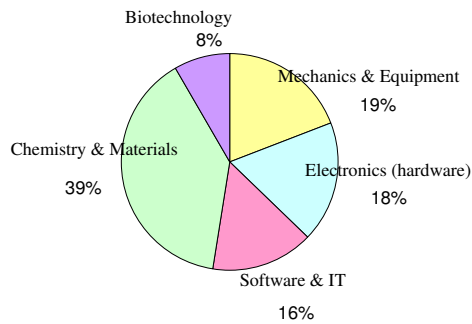


JPO: Japan Patent Office

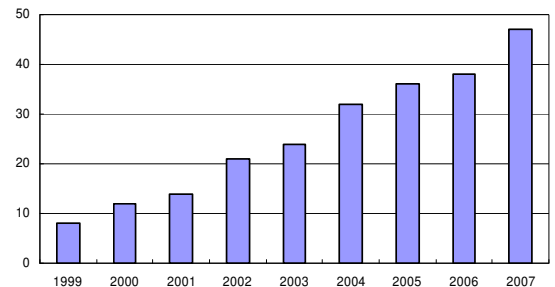


## Science/Technology Fields of Invention in Tokyo Tech

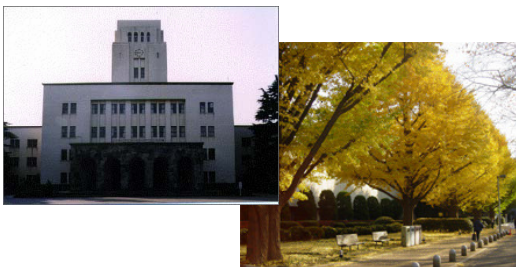
(Oct.1999 – Oct.2007)



## Spin-off Companies from Tokyo Tech



Thank you for your attention.



Any questions are welcome to  
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