Overview of NTT R&D
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Undertaking research and development in a wide range of fields, including media, security, networks and physics, NTT R&D has great potential to create new values in society worldwide.
Overview of NTT R&D

NTT R&D organization

President & Vice President

R&D Planning Department (O)

Service Innovation Laboratory Group (Y)

Communication services

Service Evolution Laboratories (Y·M)

Media Intelligence Laboratories (Y·M)

Software Innovation Center (M·S)

Secure Platform Laboratories (M)

Information networks

Information Network Laboratory Group (M)

Network Technology Laboratories (M)

Network Service Systems Laboratories (M)

Access Network Service Systems Laboratories (T·Y·M)

Cutting-edge technologies

Science and Core Technology Laboratory Group (A)

Network Innovation Laboratories (Y·M)

Device Innovation Center (A)

Device Technology Laboratories (A)

Communication Science Laboratories (K·A)

Basic Research Laboratories (A)

NTT Innovation Institute Inc. (V)

Cloud development

2,500 researchers working

TSUKUBA (T)

Silicon Valley (V)

MUSASHINO/TOKYO (M)

OTEMACHI/TOKYO (O)

SHINAGAWA/TOKYO (S)

ATSUGI (A)

YOKOSUKA (Y)

KYO (K)

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NTT R&D has been publicizing its research results in many technical papers that have been highly rated overseas and received various awards.

**Technical Papers**

- IBM
- Samsung
- Siemens AG
- Microsoft
- Intel
- NTT

NTT is ranked 13th in the number of technical papers published by corporations, and in the Top 6 for ICT companies.

<table>
<thead>
<tr>
<th>Company</th>
<th>Number of Papers</th>
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<tbody>
<tr>
<td>IBM</td>
<td>15 (x1,000)</td>
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<tr>
<td>Samsung</td>
<td>10</td>
</tr>
<tr>
<td>Siemens AG</td>
<td>5</td>
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<tr>
<td>Microsoft</td>
<td>3</td>
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<tr>
<td>Intel</td>
<td>2</td>
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<tr>
<td>NTT</td>
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**Facts (2006-2015)**

- Number of English papers published by ICT companies (2006-2015)

**Awards**

- 3 NTT developments are recognized in IEEE Milestones*.
- Among its present and former researchers are 40 IEEE Fellows.
- In 2017, it received 21 overseas awards in a variety of fields.

*IEEE milestones recognize the technological innovation and excellence for the benefit of humanity found in unique products, services, seminal papers and patents that occurred at least twenty-five years ago in an area of technology represented in IEEE and having at least regional impact.
Overview of NTT R&D

Patents

NTT files thousands of patent applications every year and owns more than 16,000 patents.

**Patent applications**

- **Japanese patents**
- **Foreign patents**

<table>
<thead>
<tr>
<th>Year</th>
<th>Japanese</th>
<th>Foreign</th>
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<tr>
<td>FY2015</td>
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<td>FY2016</td>
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<tr>
<td>FY2017</td>
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**Patents granted**

- **Japanese patents**
- **Foreign patents**

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**Award**

Clarivate Analytics has included NTT among its Top 100 Global Innovators for 7 consecutive years.

Clarivate Analytics presents this award to 100 companies selected from firms across the globe as “innovative companies and institutions vigorously engaged in protecting intellectual property rights and creating innovations with global impact,” by evaluating, from an objective viewpoint, four principal criteria: 1. Volume (of patents); 2. Success (grant rate of patent application); 3. Globalization, and 4. Influence.

This award is clear evidence that the NTT Group’s R&D activities are making highly valuable and groundbreaking contributions to the global market.