

# Research Institution Creating Industry for the New Era

DOR

CHC

CTLO



Foundation

Nagoya Industrial Science Research Institute

# An Organization Committed to Capturing the Needs of Industry for Supporting Research and Technology Development and Human Resources Cultivation

## ◆ What is “Meisanken”?

We are able to give you sophisticated support on your research and development consultation needs, through our foundation’s numerous coordinators and senior fellows (emeritus professors), with their specialized skills and broad network representing a variety of fields.

- Information platform of academic technology seeds
- Establishment of new networking among companies.
- Consultation and evaluation for IP establishment
- Tech-transfer on University’s technology to Industry
- Workshop guidance on advanced technology (collaboration with Chubu Bureau of Economy, Trade and Industry)
- Support and management for the national project “infrastructure development projects for strategic industry support”
- Contracts for funded research
- Planning of training programs to dispatch optimal instructors for each company’s request.

We have much experience in these areas and have received favorable feedback.  
Please feel free to contact us at any time



## Greetings



President

**Hiroyasu Naito**

First, I would like to introduce myself. My name is Hiroyasu Naito and I have succeeded to Susumu Naito as the President of the Research Institute.

Our foundation, upon receiving certification as a public benefit corporation from the Cabinet Office in April 2012, has been engaged in support activities for research and industry, academia, and government partnerships that contribute to the development of industrial technology, mainly in the Chubu region. For more than 70 years from the time of the establishment of our predecessor, Nagoya Aviation Institute, in 1943, we have been working on projects suited to the needs of the time.

We currently have three pillars of activities, namely (1) research, (2) training, and (3) technology transfer (fostering).

The greatest feature of our foundation is the ability to utilize a tight network of universities, including Nagoya University, that have engineering, medical, and pharmaceutical faculties, allowing for the planning and coordination of, for example, joint research, technology transfer, technology guidance, human resource training between local companies and universities.

The Chubu region, with its automotive, aircraft, new materials, and other industries, is a center for manufacturing technology and companies, and boasts industrial output figures that exceed anywhere in Japan.

In the context of upcoming transformations, sometimes called the Fourth Industrial Revolution, we recognize the increasingly important role that our foundation has to play as a link between the industry, academia, and government sectors.

We ask you all for your special understanding and increased guidance and encouragement regarding our foundation's activities.

## Project Map

	Business Category	Responsibility
Public Interest Projects	<b>Research Advancement Projects</b> Research projects Study group research projects Research projects subsidized by national treasury, etc. Public interest funded research	DOR
	<b>Knowledge Exchange and Communications Project</b> Industrial science forums Seminars and symposia, etc. Technical consultation and guidance Dispatch of lecturers	DOR
	<b>Industry-Academia Partnership Support</b> Coordination between industry and academia Industry-academia partnership project management Holding industrial networking events	CTLO
	<b>Human Resource Cultivation and Training</b> On-site training · e-learning, and group training	CHC
	<b>Technology Transfer</b> Invention consultation Patent management Invention evaluation Technology transfer Patent application	CTLO
For-profit Projects	<b>Funded Research</b> Funded research carried out in response to the commissioned challenges on research and technology development held by companies	DOR

# Research Advancement Projects( DOR )

## Research Advancement Projects

### Research projects

The researchers of the foundation (emeritus and current university faculty members) conduct basic research on the science and technology related to the industry.

### Study group research projects

Study groups led or represented by senior fellows are established to conduct research with the aim of joint R&D projects among industry, academia, and government (collaborative projects).

A list of "Study Groups" is published on a home page.

### Research projects subsidized by national treasury, etc.

Conducts adopted publicly offered competitive research (scientific research grant).

### Public-interest funded research

Conduct funded research and development (competitive funds business) consigned by the government, etc.

### Funded research

Conducts funded research consigned from industry.

## Knowledge Exchange and Communication Projects

### Industrial Science Forum

Forums are held to provide a venue for discussion on selected timely topics submitted by senior fellows and university professors.



### Seminars and symposia

As part of the activities by which a wealth of accumulated knowledge and experience is shared with society, senior fellows conduct communication activities that provide highly specialized commentary intended for engineers and researchers in other fields and the general public highly interested in science and technology.

### Technical consultation and guidance

We provide access to senior fellows for technical consultation and guidance suited to individual requests from companies and organizations to contribute in achieving problems and advancing R&D.

### Dispatch lecturers

Dispatch lectures senior fellows to give lectures requested by government or companies.

# Human Resource and Training(CHC)

## On-site Training

We dispatch senior researchers from our institute as well other lecturers specialized in a wide range of domains to provide basic engineering education as well as special education, such as technology management, according to the level required by the company.

We can respond to your needs in terms of curriculum structure, date and time, number of training sessions, and budget. (A separate brochure is available.)



## e-Learning



We provide a highly versatile program consisting of 7 engineering course that can be used across industries. This program has been used for in-house training by more than 60 companies throughout Japan. You can attend using smartphone or tablet device, in line with the times. (environmental conditions must be met)

### Course name

Electronic circuitry for mechatronics (Basic)

Electronic circuitry for mechatronics (Advanced)

Basis of vibration engineering

Basis of drying technology I

Basis of drying technology II

Fluid dynamics (Basic)

Rotation machinery dynamics (Basic)



Video learning with standard learning time of 12 to 15 hours

## Group Training (Aichi Environment School)

Training has been held between June and November since 2008 as a collaborative effort between Aichi Prefecture and CHC. This provides a venue for communication among individuals from companies, universities, and government who are engaged in environment-related work and dedicated to creating a sustainable society. The team of instructors include active front-line researchers and leaders, companies and universities.



# Technology Cultivation(CTLO)

## ◆ Research department for establishing new industry-academia partnership —Restarting as technology progressing institutions—

At CTLO, leveraging the experience gained in the many years of technology transfer activities and its strengths as a research institution, we are engaged not only with technology transfers for existing patents but also in wide range of activities that aim to foster new technologies.

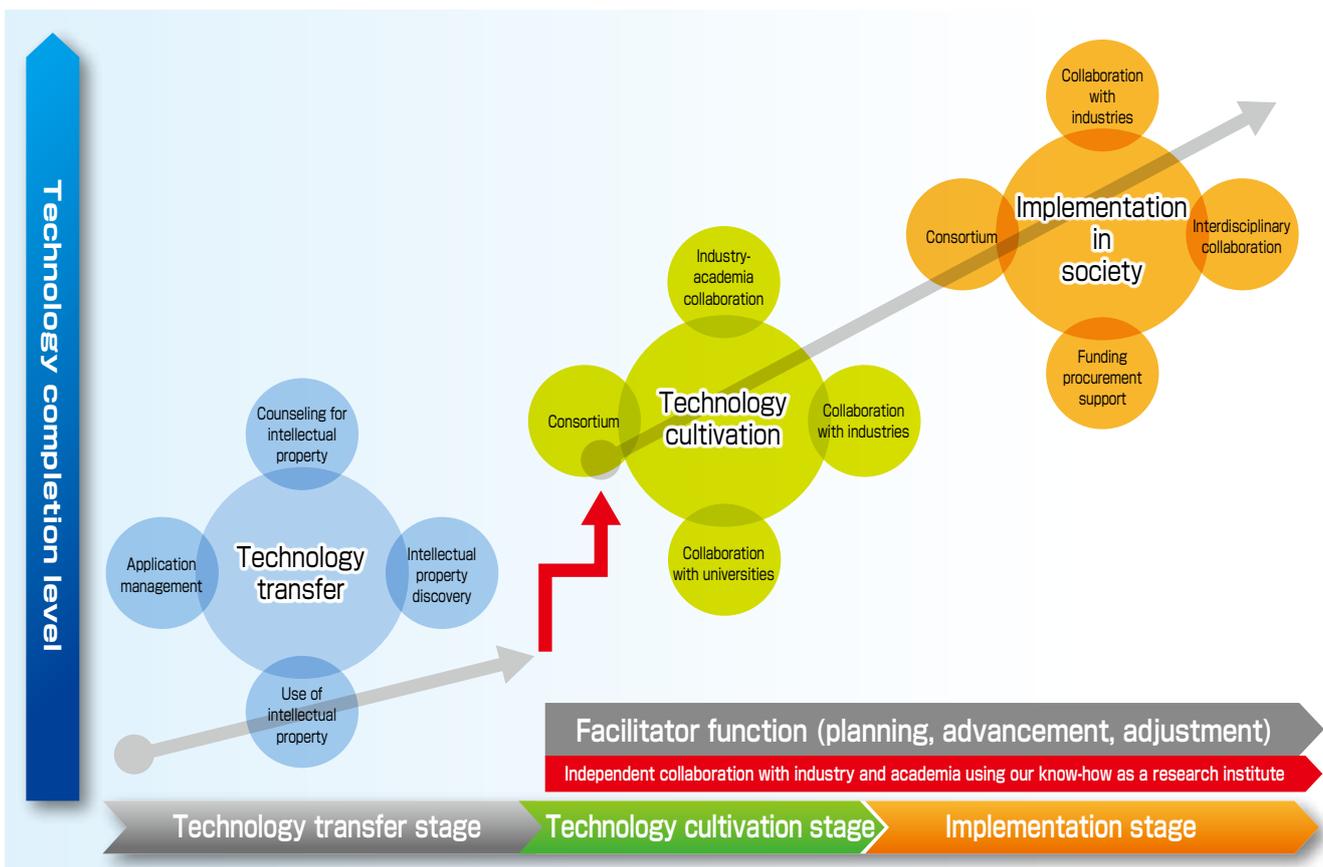
CTLO was established as a foundation in 2000 upon the request of Nagoya University and other universities in the Chubu region and the support of the Japanese government, together with the investment from over 300 university researchers as well as from companies. Through its many years of technology transfer activities (invention consultation and evaluation, patent applications and management), the CTLO has acquired the **know-how and network, as well as staff with a wealth of corporate experience**. By utilizing these to strengthen our activities as a research organization, we are able to pursue industry-academia collaborations in a way never before possible.

### Support for Industry-Academia Collaborations Tailored to Regional Characteristics

- **The engineering field** in this region is characterized by well established industry and academia. CTLO supports active exchanges in the field of engineering between small and medium-sized companies and universities, with the aim of contributing to the local industrial development. The CTLO **coordinators (technology strategy advisors), with their wealth of corporate experience**, will help to lower the threshold for industry and academia.
- **The medical/biotechnology field** in this area is characterized by a lack of industry compared to its vigorous academic pharmaceutical biotechnology research. In the pharmaceutical biotechnology field, CTLO fulfills a role as an information transmission source based on its own establish information database. We place dedicated coordinators and conduct projects commissioned by the Ministry of Economy, Trade and Industry (METI) engaged in awareness building activities in order to promote collaborations between industry, academia and government.

### New Scheme of Industry-Academia Collaborations Provided by Research Institutions

In order to foster technology seeds, CTLO technology strategy advisors and research advisors are actively engaged in supporting activities from R&D planning and its progress management to technical and research advice.



## ◆ Public competitive funding procurement support

At our foundation, we also conduct project management including Japanese government-run projects. In addition, we are also newly engaged in foundation-initiated projects.

### Next Generation Project (Promotion of automotive-related industries: METI)

We place dedicated coordinators and conduct projects commissioned by METI engaged in awareness building activities in order to promote collaborations between industry, academia and government.

#### [Achievements]

- Project for creation and support for regional core companies (METI-commission project)...., and project for the support related to building a domestic supply chain for carbon fiber composite materials
- Infrastructure development project for strategic industry support (METI-commissioned projects) ... Strategic area coordinator project (materials field)
- Support project for new industry integrated infrastructure building (METI commissioned projects) ... support projects for the elevation of next-generation vehicle-related technology and deployment of different fields

### SAPOIN Project (Project for enhancement of strategic core technology: Small and Medium Enterprise Agency)

The project for enhancing the strategic core manufacturing technology carried out by the Small and Medium Enterprise Agency based on the "Act on Enhancement of Small and Medium Sized Enterprises' Core Manufacturing Technology" (Small and Medium Enhancement Act) is referred to as SAPOIN.

Our foundation, as a project management organization, provides support for certification applications and proposals such as those submitted to the Chubu Bureau of Economy, Trade and Industry.

### Newly Started Projects

- Consortium for Drug Innovation (CDIT)  
CTLO is targeting to implement academia-origin drug-development through establishing the scheme to utilize the University's intellectual property and know-how on research results (e.g. substance candidates) and to share it with related companies and universities.
- Multilateral activities  
We have established global networks in addition to our domestic networks.

Collaborative Organization	Description
 <ul style="list-style-type: none"> <li>● Chamber of Commerce and Industry</li> <li>● Academia</li> </ul> <p>DSANJ Biz Meeting by diseases</p>	<p>CTLO promotes solid collaboration between academia and industry by working with local Chambers of Commerce and Industry and related organizations.</p>
 <ul style="list-style-type: none"> <li>● Foreign Startups</li> </ul> <p>JACI (Japanese Association for Chemical Innovation) Seminar on 4 April 2016</p>	<p>CTLO supports foreign startups to collaborate with domestic academia and companies.</p>
 <ul style="list-style-type: none"> <li>● Japanese Startups</li> </ul> <p>AdvaMed in October 2015 in San Diego</p>	<p>CTLO provided Japanese startups opportunities to make presentation at American medical equipment trade shows to introduce Japanese technologies to major foreign companies and the United States academia.</p>

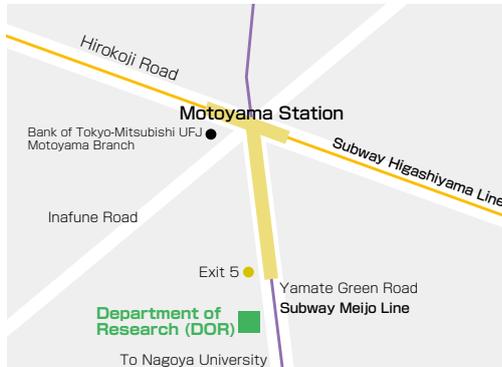
#### CTLO membership system

A membership system has been adopted in order to continuously offer advanced services.  
Please contact us if you would like to join our membership. Contact: CTLO



Foundation  
Nagoya Industrial Science Research Institute

<http://www.nisri.jp>



### Department of Research (DOR)

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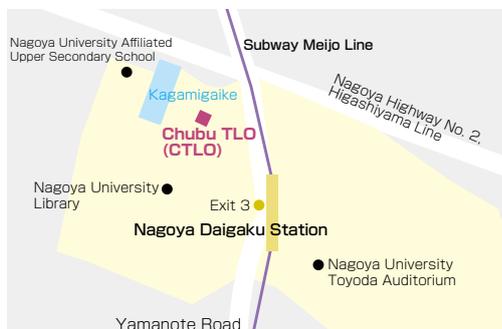


### Chubu High-tech Center (CHC)

Nagoya Chamber of Commerce & Industry Building,  
2-10-19 Sakae, Naka-ku, Nagoya, 460-0008

TEL : (052)223-6639 FAX : (052)211-6224

E-mail : chc@nisri.jp



### Chubu TLO (CTLO)

4F VBL Building, Nagoya University, Furo-cho, Chikusa-ku,  
Nagoya, 464-8603

TEL : (052)783-3517 FAX : (052)788-6012

E-mail : ctlo@nisri.jp

## Guidance for supporting members

We ask for your support and utilization of these projects upon agreement to the basic tenets of this foundation.

As a general rule, members are to be incorporated companies.

### Supporting membership fee (annual)

- 100,000 yen per company (small- and medium-sized companies, 50,000 yen)

### Supporting Membership Benefits

- Preferential participation in research exchange programs
- Various projects

\*Reception desk: Chubu High-tech Center (CHC)