The Hokkaido Research Organization (HRO), a local independent administrative agency, was established in April 2010 by integrating 22 prefectural research institutes in the fields of agriculture, fisheries, forestry, manufacturing, food, environment, geology and architecture. The HRO is now focused on the three fields of food, energy and environment under the second midterm plan, which began in 2015, and utilizes its accumulated technologies and expertise while demonstrating its collective strengths in various fields to promote research on fundamental technologies that enhance the basic value of the technologies owned by Hokkaido industries and the effectiveness of administrative policies. It also works toward the practical use of fundamental technologies, contributing to the improvement of residents’ living standards and the promotion of local industries as a comprehensive research institute in Hokkaido.

Under the fundamental principle that our research realizes new dreams for Hokkaido, we will contribute to the improvement of residents’ living standards and the promotion of local administrative policies. It also works toward the practical use of fundamental technologies, contributing to the improvement of residents’ living standards and the promotion of local industries as a comprehensive research institute in Hokkaido.

Your continued support for and cooperation with our efforts will be greatly appreciated.

We carry out strategic research by setting priority fields, based on the policies of the Hokkaido government and Hokkaido residents’ needs, as well as the current status of technology and future directions.

### Major studies

#### (Major support)

- Technical consultation (results in FY 2016)
  - Answers to inquiries about technologies (8,955 cases)
- Technical guidance
  - Instructions to resolve technical questions (1,818 cases)
- Commissed testing
  - Commissions examinations, analyses, measurements and surveys (4,365 cases)
- Facility use
  - Lending of testing equipment and devices (1,096 cases)

#### (General consultation counter)

We respond to various technical questions and research needs at the general consultation counter in our headquarters.

#### HRO Headquarters

Hokkaido Research Plaza, Kita 19 Nishi 11, Kita-ku, Sapporo 060-0819 JAPAN

**Tel** 011-747-2900
**E-mail** hq-soudan@hro.or.jp
**URL** http://www.hro.or.jp/
**Facebook** https://www.facebook.com/dosoken/

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**Technical support**

Utilizing our research findings, technologies and expertise, we support technological development and problem-solving by companies and business operators.

- **(Major support)** (results in FY 2016)
  - Technical consultation: Answers to inquiries about technologies (8,955 cases)
  - Technical guidance: Instructions to resolve technical questions (1,818 cases)
  - Commissed testing: Commissions examinations, analyses, measurements and surveys (4,365 cases)
  - Facility use: Lending of testing equipment and devices (1,096 cases)

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**Research activities**

We organize various presentations and events to raise people’s awareness of the HRO’s activities. Please feel free to join us.

- **Presentation of research findings**
  - We organize presentation sessions to introduce our latest research findings to companies and researchers.
- **Open days**
  - We host events in which individual research institutes are open to the public.

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**Social contribution**

We respond to various technical questions and research needs at the general consultation counter in our headquarters.

- **(Major support)**
  - Technical consultation: Answers to inquiries about technologies (8,955 cases)
  - Technical guidance: Instructions to resolve technical questions (1,818 cases)
  - Commissed testing: Commissions examinations, analyses, measurements and surveys (4,365 cases)
  - Facility use: Lending of testing equipment and devices (1,096 cases)

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**Outline of the Hokkaido Research Organization**

**Name:** Local Independent Administrative Agency Hokkaido Research Organization (abbreviation: HRO)

**Date of establishment:** April 1, 2010

**Headquarters:** Hokkaido General Research Plaza, Kita 19 Nishi 11, Kita-ku, Sapporo

**Capital (and buildings):** approx. 25.4 billion yen (stakeholder: Hokkaido government 100%)

**Budget scale:** approx. 15.6 billion yen/year (operational subsidy from the Hokkaido government: approx. 13.3 billion yen)

**Number of employees:** 1,091 (including 725 researchers)

**Scope of services:** experiments, research, surveys, technical development, extension and technical support related to various fields: agriculture, fisheries, forestry, manufacturing, food, environment, geology and architecture; provision of experimental equipment and facilities

*The budget scale and the number of employees are as of FY 2018.

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**22 research institutes and stations**

**Agricultural Research Department**

- Central Agricultural Experiment Station (Naganuma Town)
- Kamikawa Agricultural Experiment Station (Pigun Town)
- Dorae Agricultural Experiment Station (Hokkaido City)
- Tokachi Agricultural Experiment Station (Shinroku Town)
- Kittai Agricultural Experiment Station (Shinroku Town)
- Dairy Research Center (Hokkado Seiboku Town)
- Animal Research Center (Shirotake Town)
- Ornamental Plants and Vegetables Research Center (Takikawa City)

**Fisheries Research Department**

- Central Fisheries Research Institute (Yoshidai Town)
- Nakadake Fisheries Research Institute (Hokkaido City)
- Kushiro Fisheries Research Institute (Kushiro City)
- Abashiri Fisheries Research Institute (Abashiri City)
- Hokkaido Fisheries Research Institute (Hokkaido City)
- Marushii Fisheries Research Institute (Shirotake Town)
- Sakure and Freshwater Fisheries Research Institute (Shirotake City)

**Forest Research Department**

- Forestry Research Institute (Sapporo City)
- Forest Products Research Institute (Hokkaido City)

**Industrial Technology Research Department**

- Industrial Research Institute (Sapporo City)
- Food Processing Research Center (Shirotake Town)

**Environmental and Geographical Research Department**

- Institute of Environmental Sciences (Sapporo City)
- Geological Survey of Hokkaido (Sapporo City)

**Building Research Department**

- Northern Regional Building Research Institute (Asahikawa City)

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**Message from the President**

Our research realizes new dreams for Hokkaido.

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**Contact information**

**Tel** 011-747-2900
**E-mail** hq-soudan@hro.or.jp
**URL** http://www.hro.or.jp/
**Facebook** https://www.facebook.com/dosoken/
Research achievements by the HRO in support of Hokkaido ~ The following wide range of achievements ~

- We have predicted the resource volume of artificial forests for up to the next 35 years and estimated this yield and the distribution of logs for each region.
- We have studied how to collect woody residue (forest biomass) produced by logging, how to utilize it as fuel and evaluated its value as fuel.
- We have conducted surveys of the geology and terrain of collapsed slopes to formulate measures against slope disasters.
- Rare plant protection can lead proper conservation at unique ecosystem surrounding its habitat.
- We have examined mutual interactions between organisms, including leaf litter, aquatic insects and fish to identify the importance of the connections between these organisms in the natural world.
- We have conducted various studies to put the new wood material CLT (cross laminated timber) comprised of veneer and Japanese paper.
- To improve the usage rate of Hokkaido-grown timber, we have developed long-life concrete using volcanic ash in Hokkaido.
- We have conducted CLT construction using domestic larch for the first time in Japan.
- In collaboration with a Hokkaido company, we have achieved CLT construction using domestic larch.
- In collaboration with a Hokkaido company, we have developed an easily cleaned plastic heat exchanger that can recover heat from strongly acidic hot spring water or dirty hot waste water.
- We have developed the method to produce long life concrete using volcanic ash in Hokkaido.
- We have developed a sauce for seafood bowls and dressings. We have developed a technique to make a sauce for seafood bowls and dressings.
- Health-conscious consumers increase very slowly use salad and other dishes. We have developed a sauce for seafood bowls and dressings.
- We have worked on improving the accuracy of catch resource predictions and offer the predicted value to those concerned with the fishing industry before the fishing season every year. This information is used to increase the operational efficiency of fishery operations and marine product companies.
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