Overview of Industrial Technology Institute Fukushima Prefectural Government

（FY2024）

15 July 2025

福島県ハイテクプラザ
Industrial Technology Institute
Fukushima Prefectural Government

About Us

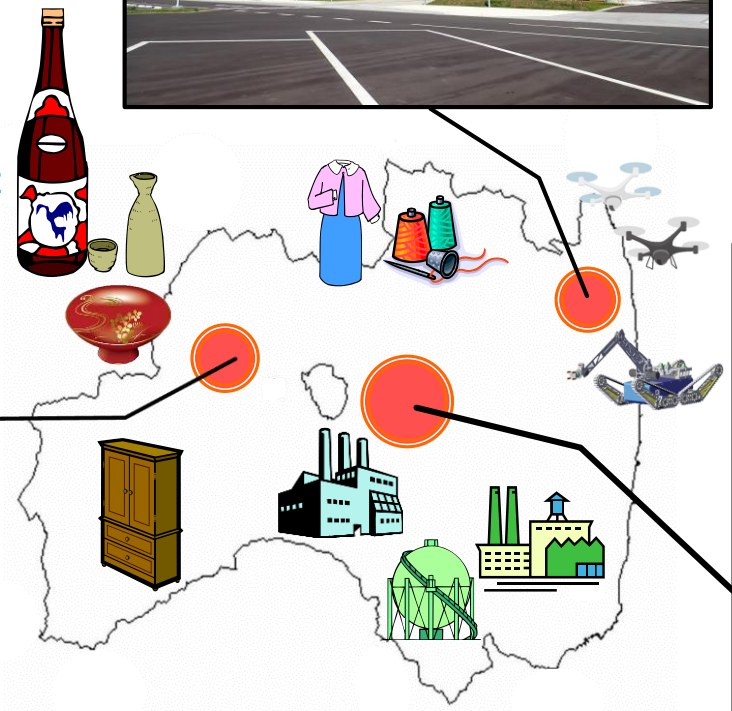
Industrial Technology Institute of the Fukushima Prefectural Government is a public testing and research institute established by Fukushima Prefecture to encourage industry in Fukushima.

Minamisoma Technical Support Centre

Robot and Metal Processing Technology

Aizuwakamatsu Technical Support Centre

Sake, Food, and Traditional Craft



Koriyama Headquarters

General Industry

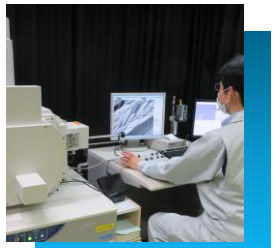
About Us (cont'd)

Industrial fields supported by the 3 Centres
- Koriyama Headquarters: Wide range of industrial technology
- Minamisoma Centre: Robot and metal processing technology
- Aizuwakamatsu Centre: Local industry in each area

Materials Technology Department, Koriyama

Metals & Physical Properties Division

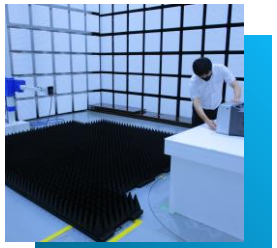
Analysis & Chemistry Division



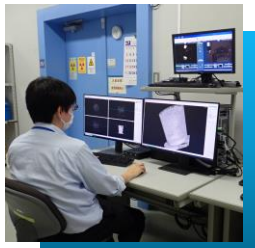
Textile & Polymer Division

Electronics & Mechanical Technology Department, Koriyama

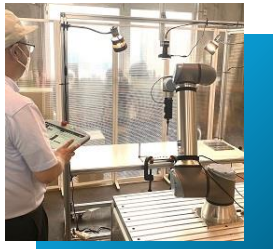
Electronics & Computer Science Division



Machinery & Processing Division

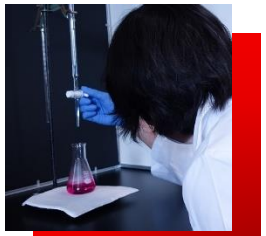


Robot & Control System Division



Technical Support Centre, Aizuwakamatsu

Brewing & Food Division



Industrial Art Division

Technical Support Centre, Minamisoma

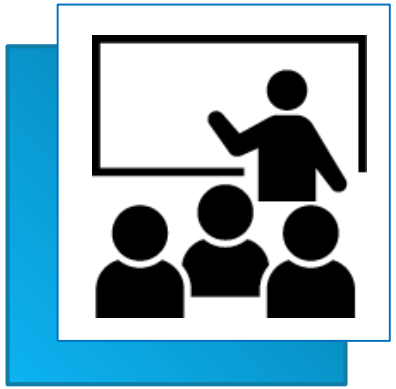
Machinery Process Robot Division

Our Mission

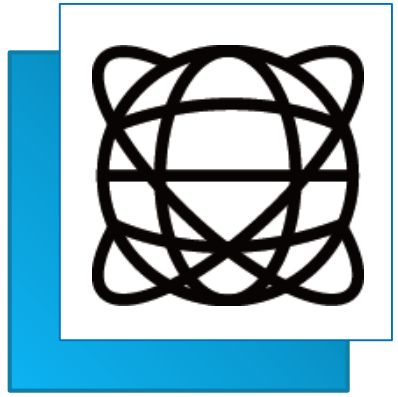
Providing technical support to manufacturers in Fukushima

Research and Development

Technical Consultation

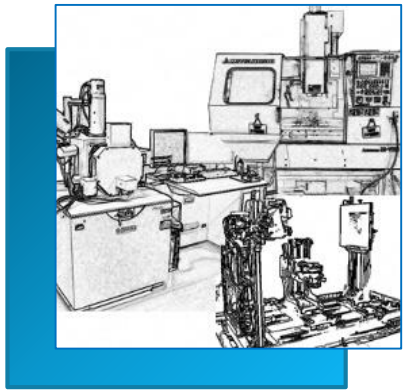


Human Resource Development

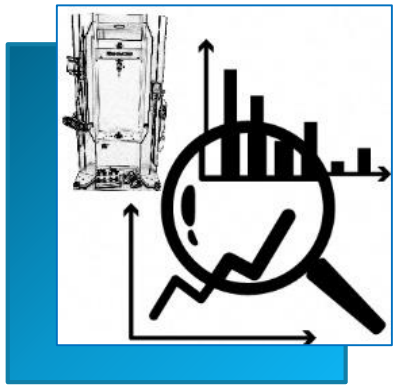


Information Provision

Equipment Rental



Testing/ Analysis/ Measurement

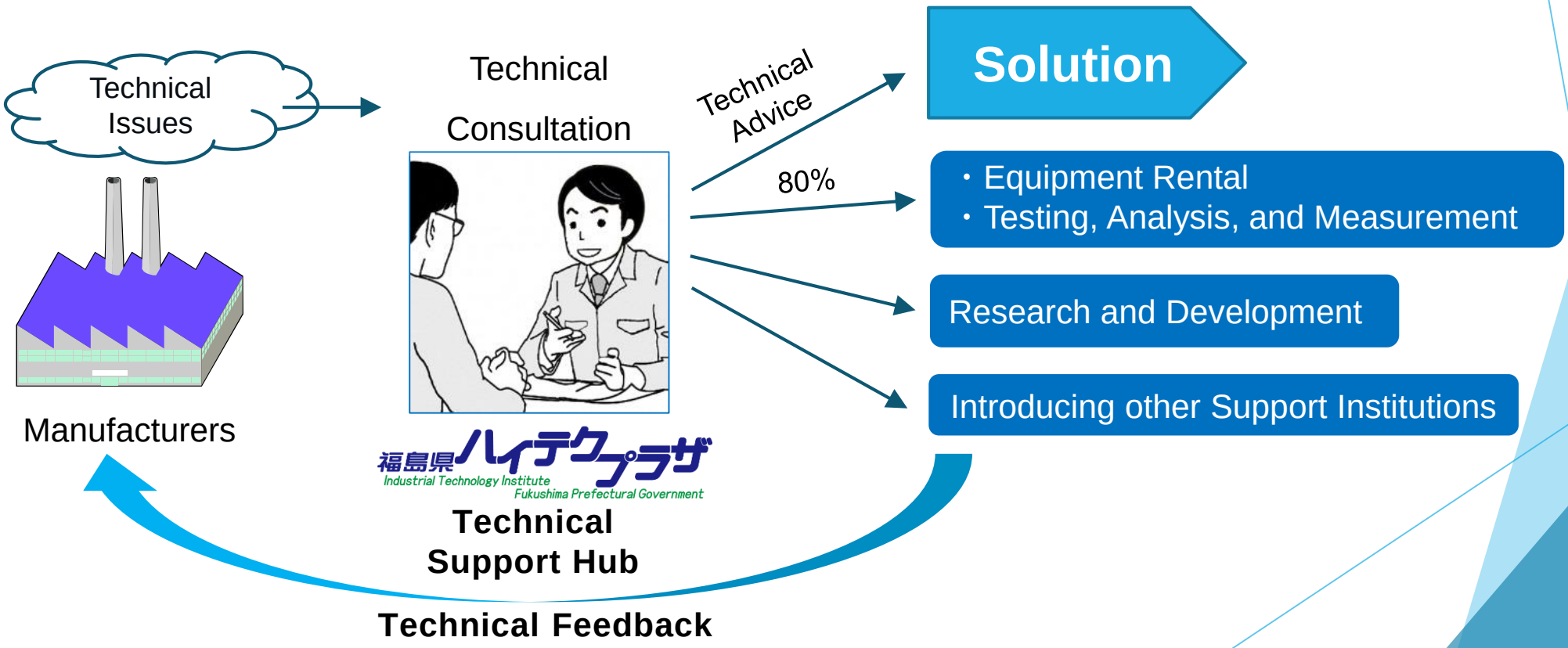


Radioactivity Measurement

Technical Consultation（FY2024）

Providing guidance from skilled and knowledgeable staff for resolving manufacturing issues

Number of technical consultations: **Approx.** 3,400/year

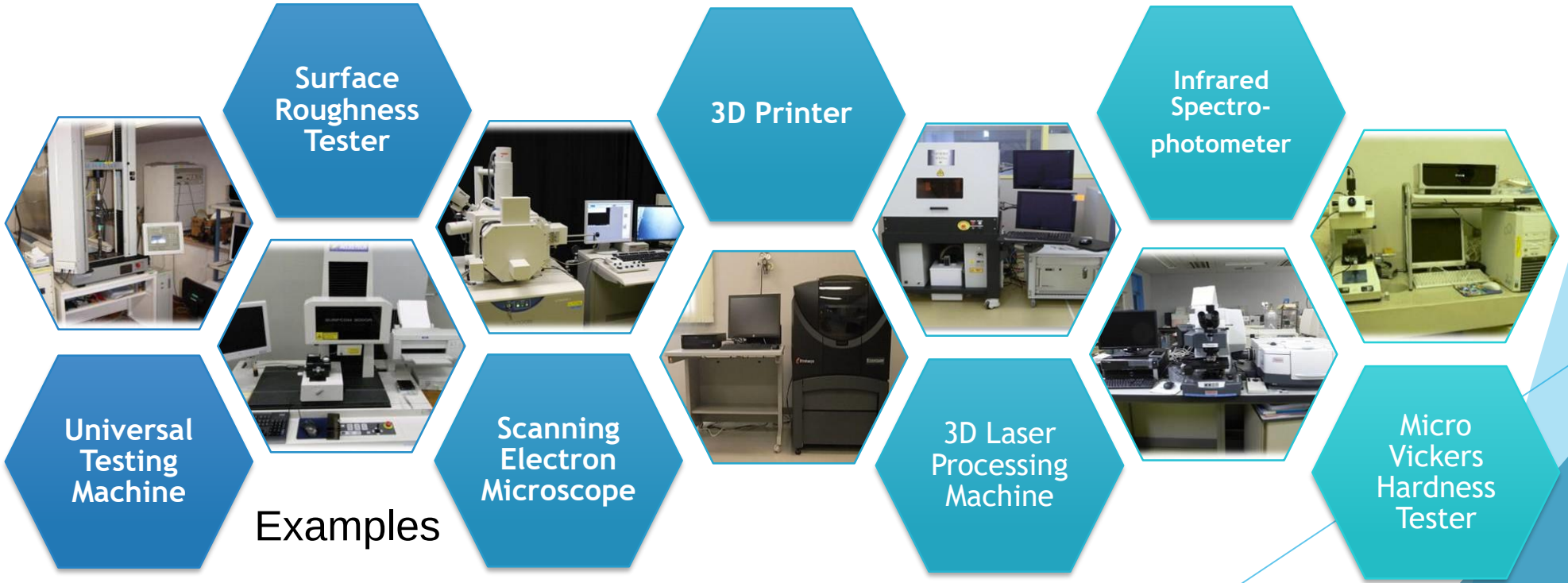


Testing/Equipment Rental（FY2024）

- **Conducting testing and measurement on request**
- **Providing equipment rental**

Number of testing: Approx. 2,600/year

Total time of equipment rental: Approx. 23,000 hours/year



Examples

Research and Development

Undertaking research and development based on manufacturer's requests

- Encompassing a wide range of research areas

- Conducting research and development in new areas aligned with Fukushima Prefecture's promotion priority areas as below

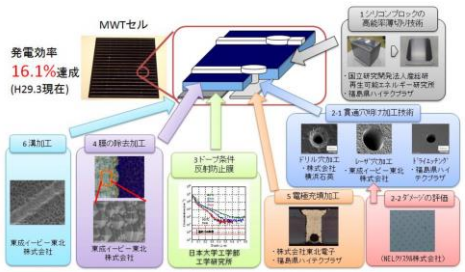
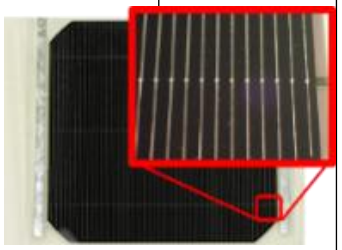
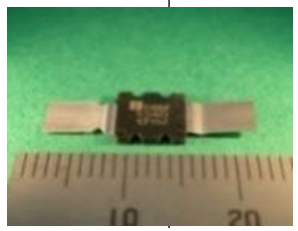
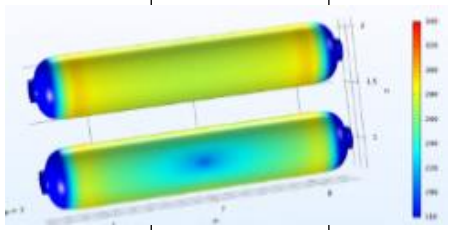
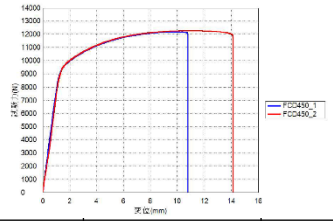
*The following pages feature three major research areas as examples

Renewable Energy | **Robot** | **AI・IoT**

Aerospace | **Medical Care** | **Local Industry**

Nuclear Decommissioning

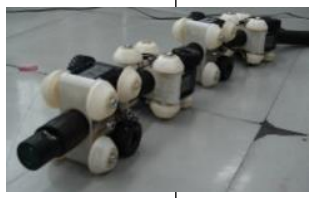
R&D Projects in Renewable Energy

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Solar Panel	Manufacturing technology of a silicon wafer 			Metal-wrap-through solar cells 	Solar panels with built-in bypass diode 		Bifacial solar panels electrically connected at the end face 				
Hydrogen Energy				Plant operation & maintenance technology for hydrogen station			Inspection technology for high pressure hydrogen tank 			Development of environmental conformity assessment technology for hydrogen and ammonia utilization in metalworking parts	

R&D Projects in Robotics

2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024

Autonomous weeding robot



In-pipe washing robot

Self-localisation system by GNSS and other sensors

Autonomous plant inspection robot

Prototype of drone demonstration machine equipped with robot vision technology

Survey of the electromagnetic environment in drone flight airspace and evaluation of drone electromagnetic resistance characteristics

R&D Projects in AI and IoT field

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024

Remote monitoring of garbage station

Printing quality inspection by AI technology

Research of wireless communication network tolerant to network disturbances for applying manufacturing site

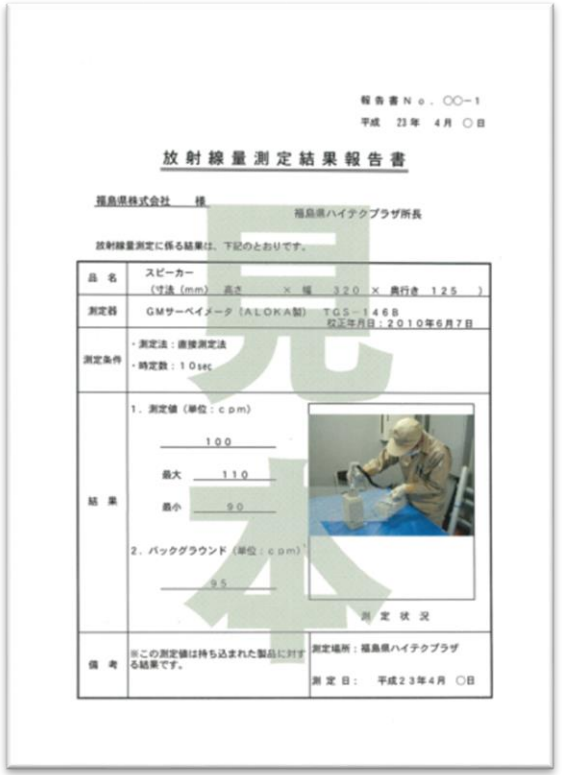
AI and IoT training facility

Support for the implementation of smart factories by the cooperation with humans, robots and AI.

Radioactivity Measurement

On-request testing for processed food and industrial products to prevent harmful rumours

Measurement of Radioactivity



報告書No．○○−1
平成　23年　4月　○日

放射線量測定結果報告書

福島県株式会社　　様

福島県ハイテクプラザ所長

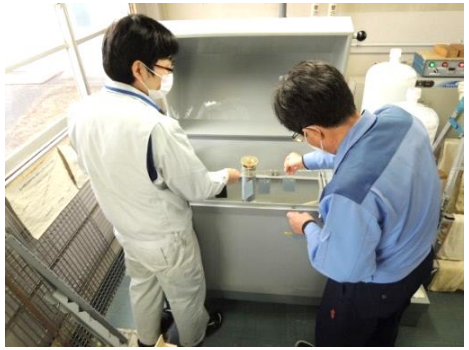
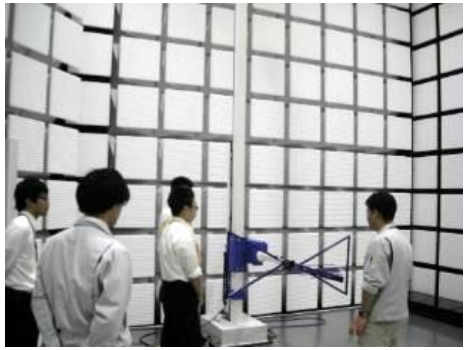
放射線量測定に係る結果は、下記のとおりです。

品名	スピーカー （寸法（mm）　高さ　　×　幅　320　×　奥行き　125　）
測定器	GMサーベイメータ（ALOKA製）　TGS−146B 校正年月日：2010年6月7日
測定条件	・測定法：直接測定法 ・時定数：10sec
結果	1．測定値（単位：cpm） 100 最大　110 最小　90 2．バックグラウンド（単位：cpm） 95 測定状況
備考	※この測定値は持ち込まれた製品に対する結果です。 測定場所：福島県ハイテクプラザ 測定日：　平成23年4月　○日

Radioactivity Measurement Report

Human Resource Development

Providing training to manufacturers' employees on equipment usage and conducting technical seminars



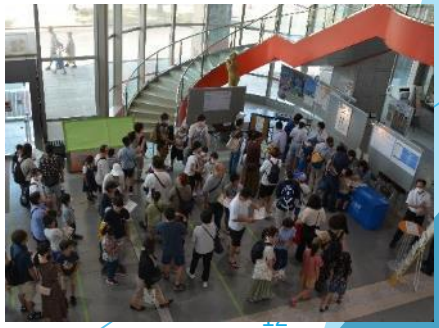

Education Program (for children)

Annual open house: 17 workshops and tours to foster the joy of science this year

Date: 4 August 2024

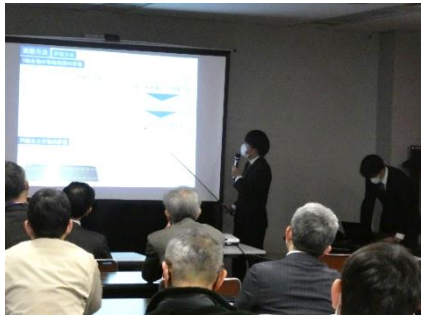
Workshop: ① Let's try engraving
② Microscope observation
③ Beat AI Game
④ Making original soy sauce
and more

Number of participants: 503



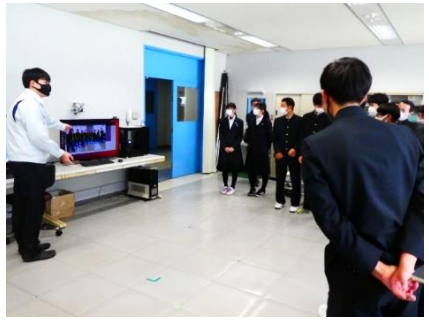
Education Program (for students)

- Workshop sessions for junior high/high school students introducing various professions in the industry and fostering future talent in Fukushima
- Technical seminars and collaborative research conducted with university students utilising our equipment resources










Thank you for your attention!

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