

Industrial Technology Institute Fukushima Prefectural Government

18 February 2024



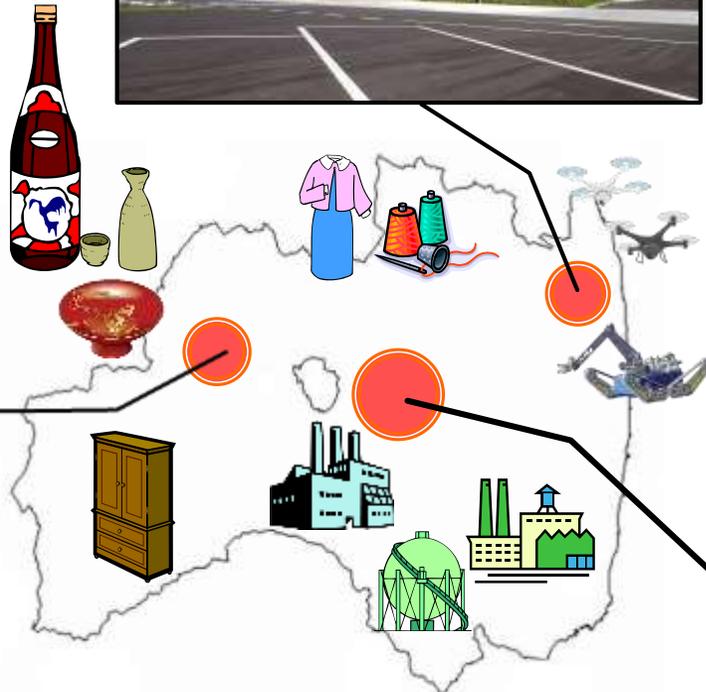
About Us

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

Industrial fields supported by the 3 Centres

- Koriyama Headquarters: Wide range of industries
- 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

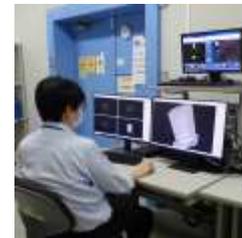


Electronics & Mechanical Technology Department, Koriyama

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



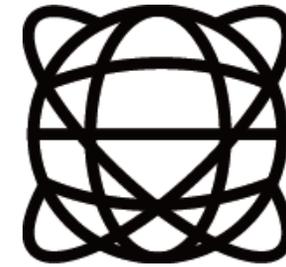
Research and Development



Technical Consultation



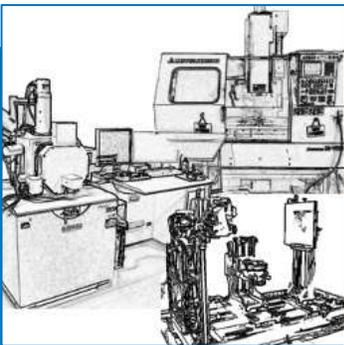
Human Resource Development



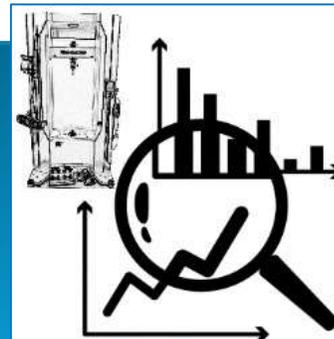
Information Provision



Equipment Rental



**Testing/
Analysis/
Measurement**



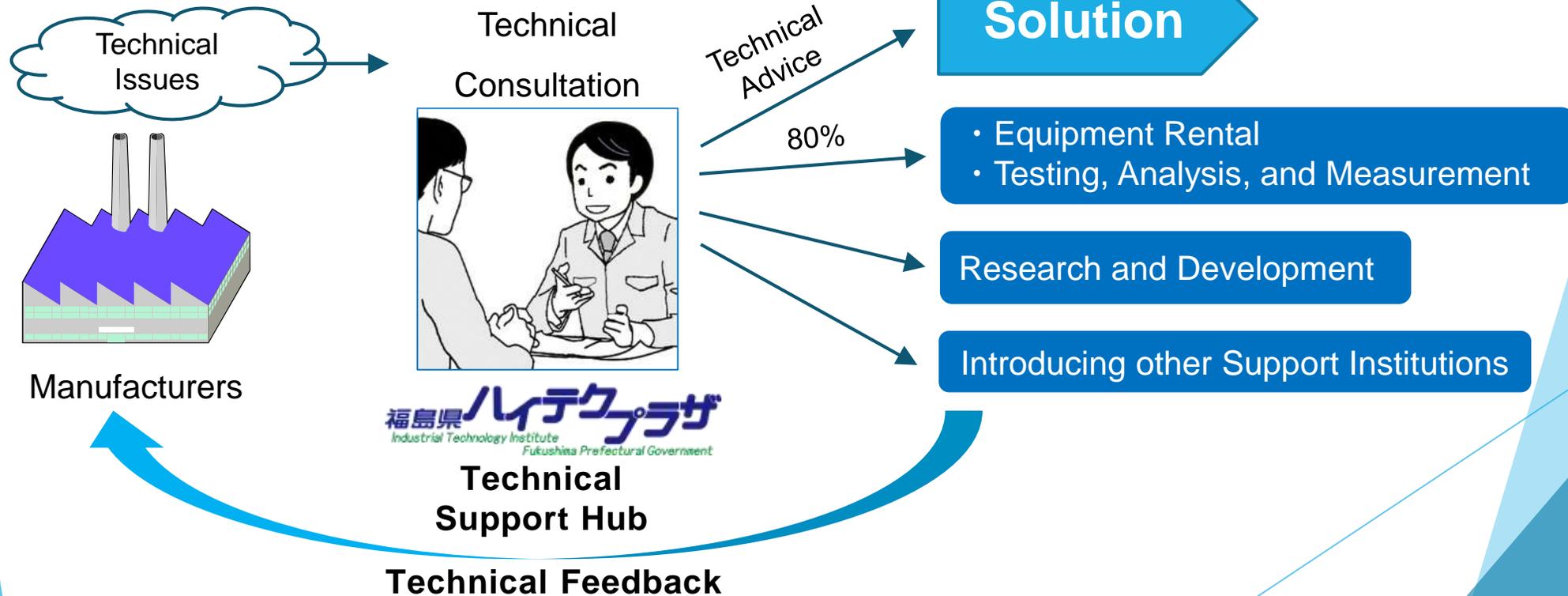
**Radioactivity
Measurement**

Technical Consultation

Providing guidance from skilled and knowledgeable staff for resolving manufacturing issues

Number of technical consultations:

Approx. 4,000/year

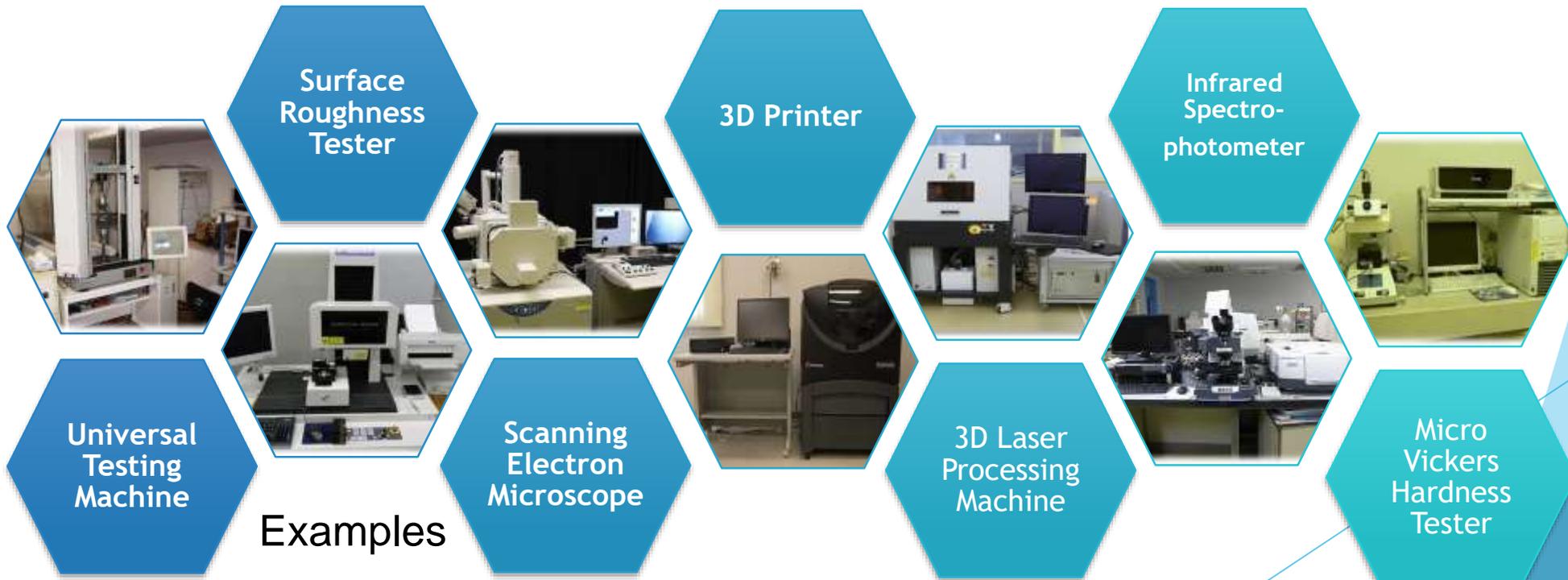


Testing/Equipment Rental

- Conducting testing and measurement on request
- Providing equipment rental

Number of testing: Approx. 3,000/year

Total time of equipment rental: Approx. 30,000 hours/year



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

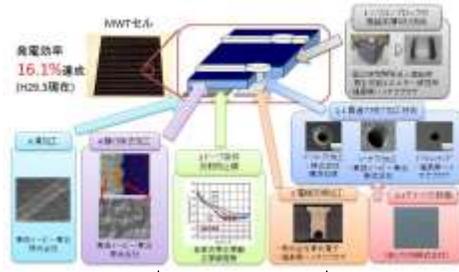
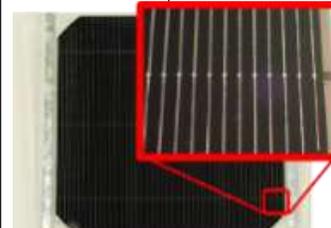
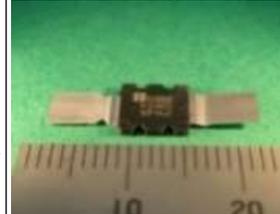
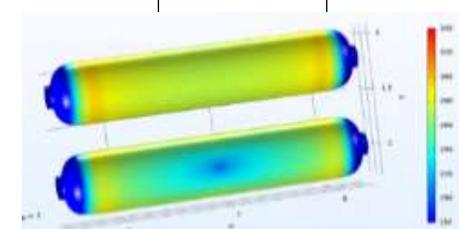
Aerospace

Medical Care

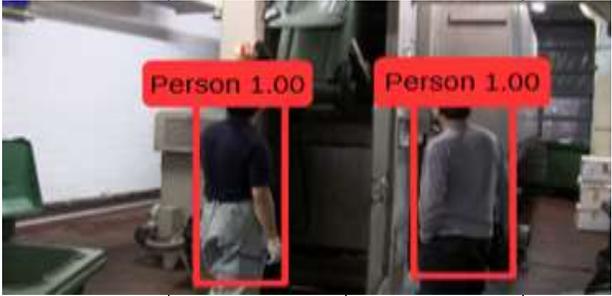
Local Industry

Nuclear Decommissioning

R&D in Renewable Energy

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Solar Panel	 <p>Manufacturing technology of a silicon wafer</p>			 <p>Metal-wrap-through solar cells</p>		 <p>Solar panels with built-in bypass diode</p>		 <p>Bifacial solar panels electrically connected at the end face</p>			
											
Hydrogen Energy				 <p>Plant operation & maintenance technology for hydrogen station</p>			 <p>Inspection technology for high pressure hydrogen tank</p>				

R&D in AI and IoT field

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
		 Remote monitoring of garbage station							
			 Printing quality inspection by AI technology						
				 AI and IoT training facility					
							 Support for the realization of smart factories by the collaboration with humans, robots and AI.		

Radioactivity Measurement

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



Measurement of Radioactivity

検査番号 No. 00-1
平成 24年 4月 10日

放射線量測定結果報告書

検査依頼先 株式会社 検査センター

放射線測定センター 株式会社

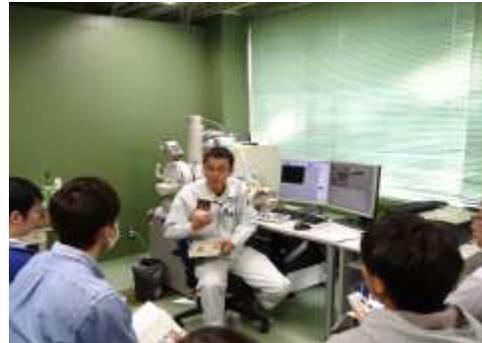
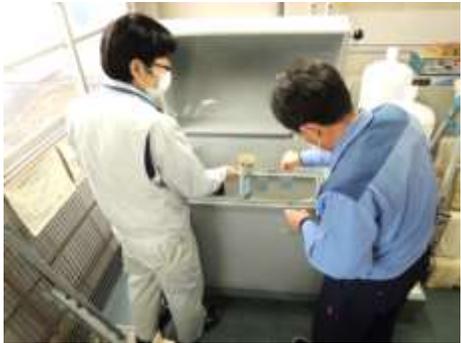
放射線測定センター 株式会社 放射線測定センター 株式会社

品名	3L-缶
測定項目	放射線量測定 (単位: Bq/kg)
測定条件	測定法: 液体測定法 検出器: 1.5cm
結果	1. 測定値 (単位: Bq/kg) 測定値: 1.00
	2. 許容値 (単位: Bq/kg) 許容値: 1.00
備考	測定結果: 合格
検査方法	液体測定法
検査場所	株式会社 検査センター
検査日時	平成 24年 4月 10日

Radioactivity Measurement Report

Human Resource Development

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



Education Program (for children)

Annual public event: 17 workshops and tours to foster the joy of science this year

Date: 19 August 2023

Workshop: ① Metal Engraving Experience
② Microscope Observation
③ Handkerchief Dyeing
④ Making original Soy Sauce
and more

Number of participants: 451

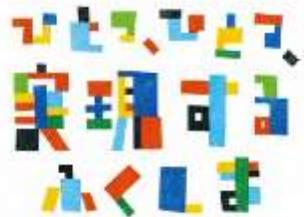


Education Program (for students)

- 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!



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