

地域共同テクノセンター

LOCAL AREA JOINT TECHNO-CENTER

地域共同テクノセンターは、本校の産学官連携活動の中心として、地域と学内に広く開かれた共同利用研究教育施設であり、地域企業のニーズに応じて共同研究や技術開発支援を行うという外向きに開かれた役割と、学内教職員の学科の枠を超えたプロジェクト共同研究などを支援する役割、そして主に専攻科学生に対して高度な技術教育を行う場という、大きな三つの役割を担っています。

センター内には、地域産業界との連携のため、共同研究や受託研究、技術開発相談等の窓口となる技術相談室の他、実験・研究用の設備・装置を備えた機器室、研究室などが設置されています。



▲地域共同テクノセンター Local Area Joint Techno-center

The Local Area Joint Techno-Center is a shared research facility which is open to the region and to within the campus. The center serves as the core of our college's partnership between industry, academia and government. The center fulfills 3 major roles. The first is an outward role of supporting technological development and conducting joint research to respond to the needs of regional corporations. The second is an inward role of supporting joint research projects which are conducted by faculty and staff and which exceed the boundaries between departments. The third role is to conduct high-level technological education with a mainly focus on students in the Advanced Course.

The center contains an Engineering Consultation Room which implements partnerships with regional industry by offering consultation regarding joint research, contract research and development of technology. Additionally, the center also contains machine rooms and research rooms which are installed with facilities and equipment for experiments and research.

階 Fl.	室名 Name of Room	用途 Use
1	技術相談室・地域交流サロン Engineering Consultation Room, Local Exchange Salon	地域産業界との連携のため、共同研究や受託研究、技術開発相談の窓口となっています。 Has become the point of contact for consultations on joint research, contract research and technological development for cooperation with regional industry.
	材料開発・物性測定・分析機器室 Materials Development, Property Measurement, Analysis Device Room	新素材、先端素材、機能性材料などの開発研究を行うとともに、各種材料の物性測定や構造解析を行い、特性の改良と実用化に関する研究を行っています。 Conducts development research for new materials, advanced materials and functional materials. Also conducts property measurement and structure analysis for all types of materials, and conducts research related to enhancement and application of properties. <主要設備・装置> 放電プラズマ焼結装置 (SPS)、オートグラフ試験装置、振動試料型磁力計、卓上型小型プローブ顕微鏡、熱分析装置、蛍光分光光度計 <Main Facilities/Equipment> Spark Plasma Sintering System (SPS), Autograph Test Machine, Vibrating Sample Magnetometer, Compact Table-Mounted Probe Microscope, Heat Analysis Machine, Fluorescence Spectro Photometer
2	環境・生物機能研究室 Environment/Biofunction Laboratory	微生物や酵素を利用した農産および水産廃棄物の再資源化に関する開発を行うとともに、環境分析や生物試験などを通じて地域環境問題解決にかかわる研究を行っています。 Conducts development related to the recycling of agricultural and marine waste products which use micro-organisms or enzymes. Also conducts research for solutions to global environment issues through environmental analysis and biological testing. <主要設備・装置> 原子吸光分析装置、嫌気培養用ガス噴射装置、フーリエ変換赤外分光光度計、食品細菌迅速検査装置、冷却遠心分離機、超低温フリーザ (-80℃)、オートクレーブ、低温インキュベータ、葉緑素計、木材水分計、騒音計 <Main Facilities/Equipment> Atomic Absorption Flame Emission Spectro Photometer, Gas Injection Machine for Anaerobic Culture, Fourier Transform Infrared Spectro Photometer, Food Bacteria Rapid Analysis Machine, Refrigerated Centrifuge, Ultra-Low Temperature Freezer (-80℃), Autoclave, Low Temperature Incubator, Chlorophyll Meter, Wood Moisture Meter, Noise Meter

● 技術相談件数 Number of Consultations

平成 20 年度 (2008) Academic Year 2008	平成 21 年度 (2009) Academic Year 2009	平成 22 年度 (2010) Academic Year 2010
92	104	112

(単位：件) (number of consultations)