Cooperative Management System that the Regional Industry Promotion of Tohoku University earnestly enriches the Small to Medium Businesses (SMBs)

東北大学の地域産業振興で本格的に地方中小企業を豊かにする連携運営システム

Chairman of the Business and Commodity Promotional Committee
Shiro Takahashi

事業化商品化推委員長
高橋四郎

All the universities in Japan and leading companies around the world work in close cooperation with each other

大学の日本中、世界中の大手企業との連携

University
Multiple Laboratories

大学
複数の研究室

Innovational Change of the small to medium businesses

受皿中小企業の変革

Coupling System of Local Small to Medium Businesses
President who challenges for higher goal, Motivated Person, Person who carries through

複 数 の 地 域 中 小 企 業 の 結 合 体 制
高い目標に挑戦する社長、やる気でやる人、最後までやる人

Confirm with cooperative supporters and the SMBs inside the laboratories
Persuade the importance of the Regional Industry Promotion

連携支援者と中小企業が研究室内部で確認

大学の教授に地域産業振興の重要さを説得

Practical Use of the Most Advanced Supporting Technology from a global point of view Many Venture Companies

グローバルな最先端支援技術を活用
ベンチャー企業多い

The speed from the development to Industrialization and commodification is taken very seriously

開発から事業化、商品化までのスピード重視

Presidents of SMBs are people who experienced business operations in the industry at the top level

中小企業社長は
業界トップクラスの
事業運営経験者
及び相当者

Development Project in Progress

開発進行プロジェクト

Chairman of the Business and
Commodity Promotional Committee
Shiro Takahashi

事業化・商品化推進委員長
高橋四郎

1. Development of an Engine during the Shale Gas Age
Low-Fuel Consumption, No pollution

1. シェールガス時代のエンジン開発
低燃費、無公害

2. Development of sapphire substrate for automobiles and power semiconductor devices
Getting out of the Si, SiC substrate High Pressure Resistant, High Temperature Restraint, High Reliability

2. 自動車用サファイア基板 及びパワー半導体デバイス開発
脱Si,SiC基板 高耐圧、高温抑制、高信頼性

3. Development of Visualization Analysis System of the internal change phenomenon for the lithium ion rechargeable battery
Analyzing without the cell dismantling, Improvement significantly in manufacturing quality

3. リチウムイオン二次電池の内部変化現象の可視化解析システム開発
セル解体無しで解析、製造品質の大幅改善

4. Development of new backlight unit liquid crystal TV monitor
1/10 Power Consumption even-brightness and no distortion in full screen

4. 新バックライトユニット液晶TVモニター開発
消費電力１／１０ 画面全域輝度ムラ、歪なし

5. Development of High-Precision Solventless Mirror Surface Coating System
5. 高精度無溶剤鏡面塗装システム開発

Business Roadmap

事業化ロードマップ

Chairman of the Business and
Commodity Promotional Committee
Shiro Takahashi

事業化商品化推進委員長
高橋四郎

(the Longest Schedule)

(最長スケジュール)

Project		Basic Research, Evaluation, Patent Applications		Prototype		Mass Production Trial		Production	Sale
Power Semiconductor Battery Evaluation System Backlight Unit	2. 3. 4.	2013 Apr. Start	2014 Mar. Complete	2014 Apr. Start	2015 Sep. Complete	2014 Oct. Start	2015 Mar. Complete	2015 Apr. Start	2015 Jun. Start
Multi-Fuel Engine Coating System	1. 5.	2013 Apr. Start	2014 May Complete	2014 Apr. Start	2016 May Complete	2016 Jun. Start	2017 Jan. Complete	2017 Feb. Start	2017 Apr. Start

2014年4月より要素技術専門企業がオンザジョブ研修で参画

量産試作から地域組立生産予定中小企業の研修

From April 2014, Specialized Companies in Elemental Technology will participate in it on the job training

From the Mass Production Trial, there will be a training of local assembling planned SMBs.