

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Biomedical Engineering Research Labs, Industrial Technology
Research Institute (BEL/ITRI)

2. Cooperation requested:

IL-1 transgenic mice

3. Description:

Cooperation is needed in evaluating drug effects using the animal
model developed by Amgen.

4. Implementation Methods:

Cooperation with Amgen's R&D department to carry out the
evaluation

5. Past Cases: None

6. Contact Information

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7. Remarks:

The transgenic animals have to show the traits of psoriasis.

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Nano Technology Research Center, Industrial Technology Research Institute (NTRC/ ITRI)

2. Cooperation requested:

Graphene, CNT (Carbon Nano Tube)

3. Description:

The NTRC wants to obtain the necessary raw materials to develop a prototype.

4. Implementation Methods:

Procurement or collaboration

5. Past Cases: None

6. Contact Information

Contact person: Hui-Ju CHENG

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Microsystems Technology Center, South Branch, Industrial
Technology Research Institute

2. Cooperation requested:

Micro energy harvester

3. Description:

MEMS (Micro Electro Mechanical System) based energy harvester
for portable/remote wireless sensors

4. Implementation Methods:

Technology transfer or patent licensing

5. Past Cases: None

6. Contact Information

Contact person: Peter CHANG

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Microsystems Technology Center, South Branch, Industrial
Technology Research Institute

2. Cooperation requested:

Micro scanning mirror

3. Description:

Design, technology, and packaging of MEMS (Micro Electro
Mechanical System) based micro scanning mirror

4. Implementation Methods:

Technology transfer or patent licensing

5. Past Cases: None

6. Contact Information

Contact person: Peter CHANG

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Microsystems Technology Center, South Branch, Industrial
Technology Research Institute

2. Cooperation requested:

Micro speaker

3. Description:

Design and technology of MEMS (Micro Electro Mechanical
System) based speakers

4. Implementation Methods:

Technology transfer or patent licensing

5. Past Cases: None

6. Contact Information

Contact person: Peter CHANG

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Microsystems Technology Center, South Branch, Industrial
Technology Research Institute

2. Cooperation requested:

Micro gyroscope

3. Description:

Design, technology, control and readout circuits, and packaging for
MEMS (Micro Electro Mechanical System) based gyroscopes

4. Implementation Methods:

Technology transfer or patent licensing

5. Past Cases: None

6. Contact Information

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Energy & Environment Research Laboratories, Industrial
Technology Research Institute (EEL/ITRI)

2. Cooperation requested:

Collaboration in high-speed compressors

3. Description:

High-speed, high-efficiency compressors for refrigeration and air conditioning applications including associated components such as bearings (magnetic, ceramic, fluid, etc.), motors and alternators

4. Implementation Methods:

International parties holding relevant knowledge and intellectual rights are welcome to collaborate in the commercial product development by means of technology transfer, patent licensing, joint-developing, etc.

5. Past Cases: None

6. Contact Information

Contact person: Dr. Hsu-Cheng CHIANG

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Center for Measurement Standards, Industrial Technology Research
Institute (CMS/ ITRI)

2. Cooperation requested:

Spontaneous determination of five degrees of freedom for machine
tool

3. Description:

Laser interferometer for determining five degrees of freedom for
machine tools

4. Implementation Methods:

Collaboration with multinational companies

5. Past Cases: None

6. Contact Information

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Information and Communications Research Lab, Industrial
Technology Research Institute (ITRI)

2. Cooperation requested:

Multi-Service Radio over fiber (ROF) technology

3. Description:

Radio over fiber (ROF) technology is used to extend wireless base stations to better cover dead zones such as subway stations and tunnels, where radio signals are blocked. In the past, ROF could support only one wireless network, but now it has to support various networks: WiFi, WiMax, 2.5G/3G/4G, UWB (Ultra-Wideband, IEEE 802.15.3a). ROF applications will also extend from the ETC system used on a highway to mobile communication on the High Speed Railway and Intelligent Transport System in Taiwan. Our objective is to develop an ROF technology that can support various networks.

4. Implementation Methods:

Collaboration or joint development in multi-service radio over fiber (ROF) technology

5. Past Cases: None

6. Contact Information

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Mechanical and Systems Research Laboratories, Industrial
Technology Research Institute (MSL/ITRI)

2. Cooperation requested:

Application of Intelligent Decision Support System (I-DSS) in
manufacturing systems

3. Description:

- (1) Multi-agent applications in cooperative manufacturing
operations
- (2) Ontology applications in engineering knowledge management
systems

4. Implementation Methods:

Technology transfer and/or co-development

5. Past Cases: None

6. Contact Information

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Mechanical and Systems Research Laboratories, Industrial
Technology Research Institute (MSL/ITRI)

2. Cooperation requested:

Transfer of wind turbine control system technology

3. Description:

In a megawatt-scale wind turbine system, a good and stable control mechanism is needed to achieve a high-efficiency, high-reliability power control. If related control technology can be introduced, the development of local wind turbines can be sped up.

4. Implementation Methods:

Wind turbines have been developed for years in Europe, and the advanced technology there can be applied in Taiwan through technology transfer.

5. Past Cases: None

6. Contact Information

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7. Remarks: None

International Economic and Technical Cooperation Requested by the MOEA

1. Name of Organization:

Mechanical and Systems Research Laboratories, Industrial
Technology Research Institute (MSL/ ITRI)

2. Cooperation requested:

Design and manufacturing techniques for Direct Driver Motors

3. Description:

High-speed machine tools have now become more popular and mature. The trend in machine tool techniques is towards high precision, mill-turn and intelligence. A key component, the Direct Drive Motor (DD Motor), has the important features of high precision and high torque output, and as such it will replace the conventional compound system of servo motors and speed-reduction mechanisms. The DD widely applies to loading/unloading devices for FPD and semiconductor equipment, rotary tables and rotary heads for five-ax machine tools. Cooperation with makers of the Direct Drive Motor is being sought.

4. Implementation Methods:

In the first stage DD motors will be developed for rotary tables and loading/unloading devices. The next-stage development will be for high-precision rotary heads.

5. Past Cases: None

6. Contact Information

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7. Remarks: None