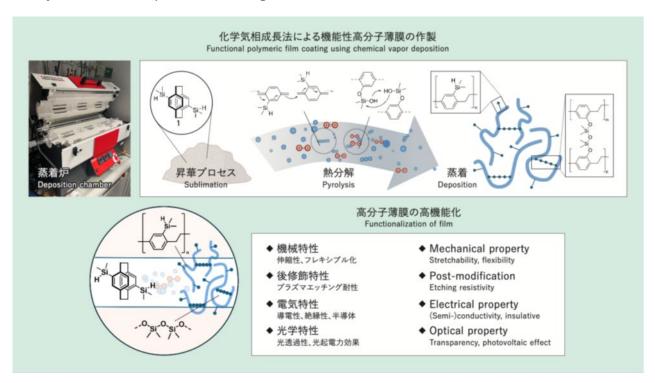


# High-performance polymer thin films for Med & Semiconductor coating New functional thin films for Med & Semi

### **Background and Technical Challenges**

Chemical vapor deposition enables conformal thin-film coating at room temperature. However, film formation without loss of material function is hampered by molecular instability from heat or pressure changes.



#### **R&D Goals and Outcomes**

CVD enables polymer thin-film with biocompatibility, transparency & conductivity for durable device coating.

#### **Key Technologies**

#### **01** Core Technologies

We developed a sublimation method preserving functions of synthesized materials, enabling defect-minimized, damage-free thin-film deposition.

## **02** Key Differentiators

Our method enables the synthesis of functional CVD films with optimal thickness control, fewer pinholes, and higher adhesion forces compared to conventional coating processes.

Use Cases	Environmental Services	R&D phase	Research
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Technology Schedule FY27-29 Commercialization Schedule After FY30

【Exhibitors】 NTT Research, Inc. MEI Lab. 【Contact】 NTT Research, Inc. [Co-exhibitors]

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