

Featuring Composite

The Present and Future of Composites ~Aiming to expand the use of plastic materials~



**Nagoya University
National Composite Center**

ICC
Innovative Composite Center

**Innovative Composite Materials
Research & Development Center,
Kanazawa Institute of Technology**

Nagoya University National Composite Center (NCC) and Innovative Composite Materials Research & Development Center, Kanazawa Institute of Technology (ICC) are working in the research and development of new materials. The two institutes work with manufacturers in the carbon fiber, automobile, industrial machinery, molding, and processing industries through the academic-industrial alliance program.

Research topics include increasing the strength of composite materials with resin and carbon fiber for automobile outer panels and structural elements, the development of high speed and cost effective processing methods, resistance evaluation, evaluation method standardization, application of plastics in aircraft and wind turbines.

The institutes also conduct a wide range of projects. By combining new synthetic resins with various types of nano-fibers and nano-clay, superior mechanical properties such as ultrahigh-temperature characteristics or longer durability, which were not possible by previous technologies, are now being studied. In addition, reuse technology and recycling systems which can handle high volumes at low cost and can contribute to future industry are pursued.

