**The 2020 Open Projects Foundation application guide of OFCMT**

State key Laboratory of Optical Fiber and Cable Manufacture Technology of YOFC carries out research work around the following six research directions. The open projects foundation applied for must involve related technologies and industries, as shown below:

1. Optical fiber technology research

Design, development of new or special optical fibers and new preparation processes; research and application of key raw materials for special optical fibers.

1. New or special optical cable technology research

New or special optical cable product design and application technology, submarine cable and application technology, marine communication network planning and design.

1. Intelligent manufacturing technology research

New generation of optical fiber preform, optical fiber, optical cable intelligent manufacturing equipment key technology, online monitoring or control technology; energy-saving and environmentally friendly preparation technology or key equipment technology; industrial Internet technology and application development.

1. Optical fiber application technology research

Optical fiber application technology or device and system development for communications, sensing and other fields; new material development and technology research for optical fiber applications; application technology research for optical fiber sensing.

1. Testing technology research

Research on new or special optical fiber and cable and application detection technology, key test equipment scheme and weak signal detection technology.

1. Frontier technology research

Basic research on new materials or pre-research on applied technology; application evaluation and reliability verification of new device systems; research on 5G high frequency wireless communication technology.