

**R&D Project Streams offered by CPRI**

<b>Sl No.</b>	<b>Branch/ Specialization</b>	<b>Area of Research</b>
1	Chemical Engg/ Chemistry	Gassing tendency and thermal conductivity behavior of dielectric nanofluids.
2	Mechanical Engg./ Metallurgical and Materials Engineering or Thermal Engineering or Manufacturing Technology	Area of material science/ engineering, ceramics, metallurgy etc.,
3	Electrical Engineering/ Power Systems or Energy Systems	Reliability, Energy Efficiency
4	Electrical Engineering/ Power Systems	Power systems stability, protection and renewables
5	Electrical Engineering/ High Voltage or Measurement & Instrumentation	Investigations on insulation defects in power cables, Diagnostics techniques for HV and MV cables, Condition assessment of Power Cables, Thermal stress analysis using dielectric power factor in HV
6	Chemical Engineering/ Chemistry	Determination of Oxidation Stability of Esters derived from Azadirachta indica
7	Electrical Engineering/ Power Systems	Soft computing techniques for investigations on enhancement of voltage regulation in microgrid system
8	Mechanical Engineering (with working knowledge of design/ analysis software)	Design & Analysis of Transmission Line conductors and accessories
9	Chemical Engineering	1. Energy storage materials and Devices (batteries, super capacitor etc.) 2. Nanotechnology and Materials Engineering)
10	Electrical Engineering/ Power System or Renewable Energy	Energy storage application in Electric vehicle and solar.
11	Chemical Engineering/ Chemistry	Conversion of non-edible vegetable oil (Pongamia/ Jatropha) into esters as an insulating fluid for the transformer.
12	Electrical Engineering/ Power Systems	Planning and Economic Load Dispatch (ELD) of Microgrids

