From an overview of the research at the GREMI laboratory to a focus on the different researches in the Arc Team

GREMI is a French Research Unit between the University of Orléans and the CNRS (french national center of the scientific research). The GREMI lab is specialized in laser and plasma processes. Their applications cover large fields related to energy, materials, micro-electronics, nanotechnologies, metrology, radiation sources, biomedical, propulsion, transportation and the environment. These scientific or technological applications exploit the thermal, reactive, conductive and radiative properties of plasmas which can vary considerably according to their mode of production. These highly variable properties thus offer plasmas a wide adaptability to a large number of potential applications. Technological studies are preferred, but the fundamental aspects of research with modeling are very present and generally addressed in relation to applications.

The Arc Team of the GREMI is composed of three researchers and a research engineer. The team studies plasmas at atmospheric pressure. They can be thermal or non-thermal and the research topics include cut-off arcs, fault arcs, plasma actuators for flow control, plasmas for reactive species production, and plasmas for water pollution control.