

CALL # 2019-1-RD-EMMA- MCL

The Joint Research Center of the European Commission (JRC) has opened access to its Micro-Characterisation Laboratory (MCL) dedicated to the experimental investigation of materials performance in terms of microstructure and micromechanics of interest for the safe operation of nuclear installations.

Opening of the call: 2019-11-15

Closure of the call: 2020-01-31

Location: JRC, Petten, The Netherland

The following equipment is available:

- ✓ High temperature nanoindentation testing system;
- ✓ In-situ micromechanical testing system;
- ✓ Sample preparation equipment

Priority topics:

- Micro-characterization of materials of nuclear interest.
- High temperature nanoindentation of metals, alloys and composites.
- Development of new micro-mechanical testing methodologies
- Support to the development of predictive mechanism-based multiscale models of material behaviour.
- Effects of material degradation sources in nuclear environments (irradiation, high temperature, corrosion)
- Understanding of small scale plasticity

Details:

<https://ec.europa.eu/jrc/en/research-facility/open-access/relevance-driven/2019-1-rd-mcl>