

# CALL # 2019-1-RD-EMMA-AMALIA

The European Commission's Joint Research Center (JRC) has opened access to its infrastructure within the frame of the AMILIA (assessment of nuclear power plants core internals) laboratory for testing materials in the area of ageing in aqueous media. The laboratory consists of 5 water loops for providing and analyzing water for autoclave test facilities connected to 6 autoclave testing systems.

**Opening of the call:** 2019-11-15

**Closure of the call:** 2020-01-31

**Location:** JRC, Petten, The Netherland

## **Priority topics:**

- Safety and reliability of nuclear components for current and future nuclear systems
- Support to the development and adaptation of European Codes and Standards
- Development of advanced test methods for material characterization
- Characterisation of mechanical properties of candidate and new corrosion-resistant high-temperature materials, incl. surface modifications and welded joints
- Prediction of design life of new materials, remaining life of service-exposed materials including welded joints subjected to operational conditions by mechanical tests, modelling and microstructural analysis.
- Characterization of tensile and creep properties using standard and sub-size specimen and small punch tests
- Characterization of ageing effects for key material properties.

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