



2020-KRU-A5-FGIV-015390

**FG IV - SCIENTIFIC/TECHNICAL SUPPORT
OFFICER - EXPLORATORY RESEARCH PROJECT -
INVESTIGATION OF ULTRA-HIGH
TEMPERATURE CERAMICS (ULTIMATE)****Position for:****FG IV - Project Officer -
Scientific/Technical Support
Officer**

As the science and knowledge service of the Commission, the mission of DG Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.

The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at <http://ec.europa.eu/jrc/>

The JRC offers a vacancy for a Contract Agent within the Exploratory Research Project ULTIMATE (Investigation of Ultra-High Temperature Ceramics).

The JRC's Exploratory Research Programme (ER) is a strategic initiative characterised by ideas that might lead to novel results to qualitatively enrich current JRC scientific work.

The vacancy is within the Directorate for Nuclear Safety and Security. The directorate supports the implementation of the JRC Euratom research and training program, the maintenance and dissemination of nuclear competencies in Europe to serve both "nuclear" and "non-nuclear" member states.

The ER Project ULTIMATE will focus on the study of ultra-high temperature ceramics (HfC, HfTaC, etc.).

In a first step, the selected materials will be synthesized (SPS sintering) and characterized (SEM, XRD, Elemental Analysis of Light Elements, SIMS, etc.). The high-temperature behaviours (melting point, optical properties, mechanical and chemical stability) of the fabricated samples will be studied with the laser heating facility at JRC Karlsruhe. Finally, the mechanical and irradiation stability of as-fabricated and melted samples will be studied in the dedicated facilities in JRC Petten and JRC Geel sites.

The successful candidate will be in charge of performing the sample synthesis and characterisation, following the irradiation experiments, analysing the data and reporting. He/she will carry out all aspects of the ULTIMATE project, this including:

- Coordination and follow-up of all steps described in the above activity description;
- Participation in the experimental works at JRC Karlsruhe (sample production and characterisation, laser heating, etc.);
- Travelling to the JRC Petten and JRC Geel sites for follow-up;

JRC Site	Karlsruhe
Country	Germany
Rules and eligibility	<p>The candidate must be on a valid EPSO reserve list for Function Group IV contract staff.</p> <p>If you are not in any valid EPSO reserve list for Function Group IV contract staff, you can still apply by following these steps.</p> <p>You express your interest by applying to the CAST Permanent or to the permanent JRC Call for researchers.</p> <p>1. CAST Permanent: open-ended selection procedure to create a pool of candidates from which the institutions, bodies, offices and agencies of the European Union (EU) can recruit contract agents. https://epso.europa.eu/documents/2240_en</p> <p>2. JRC Call COM/1/2015/GFIV – Research: open-ended selection procedure to create a pool of candidates from which mainly the JRC can recruit contract agents FGIV as researchers. Details available at the link below: https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers</p> <p>Only then you can apply for this specific position, through http://recruitment.jrc.ec.europa.eu/?type=AX</p> <p>Auxiliary contract staff: https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members</p> <p>Article 3b of the Conditions of Employment of Other Servants of the European Union applies: the actual period of employment within the Commission under this type of contract, including any period under renewal, shall not exceed 6 years.</p> <p><i>Please note that in case a high number of applications is received only shortlisted candidates will be contacted.</i></p>