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Institute for Reference Materials and Measurements

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Reference number: Cat. 30.3 D06-FSQ	
<b>Research Project Title</b>	<b>Food proteomics</b>
<b>Project Description</b>	<p>The JRC's Institute for Reference Materials and Measurements (IRMM), in Geel, Belgium, is offering a position for a post-doctoral scientist in the area of proteomics applied to food safety and food quality. The successful candidates are expected to contribute to scientific projects in the area of food allergens or food authentication.</p> <p>The successful candidate shall carry out laboratory work and develop proteomics-based confirmatory methods for the detection, identification and relative quantification of species-specific proteins/peptides (of plant or animal origins). Two-dimensional protein fractionation (2D-DIGE), ultra high-performance liquid chromatography (nano-UHPLC) with high-resolution time of flight mass spectrometry ((Q)-TOF MS) will be utilised to identify appropriate markers for food safety applications (e.g. detection of food allergens) and food authentication (e.g. organic food products, heat treatments of meat). The development of suitable sample preparation protocols will be part of the work. The candidates shall have competences in experimental design and interpretation of data for qualitative (protein database and search engine for protein identification) and quantitative (protein profiling and quantification) proteomic analysis.</p> <p>Candidates with a PhD in chemistry, biology or biochemistry and with a strong background in protein chemistry are invited to submit their applications. They are expected to have experience in protein analysis methods such as protein fractionation/purification techniques, liquid chromatography and high-resolution mass spectrometry applied to proteomics. Knowledge of capillary electrophoresis will be considered as an added value. The expertise of the candidates shall be underpinned by a corresponding publication list. The demanding nature of the research topic proposed requires the ability to solve problems and also act effectively as part of a research team. The successful candidate shall be able to work under the umbrella of a quality system. Good command of English is a prerequisite.</p>
<b>Duration</b> (min. 6 months-max. 36 months)	Up to 36 months
<b>IRMM Contact</b>	E-mail: <a href="mailto:jrc-irmm-fellows@ec.europa.eu">jrc-irmm-fellows@ec.europa.eu</a>
<b>How to apply</b>	<p>Please consult the job pages of the JRC-IRMM website for instructions to apply: <a href="http://irmm.jrc.ec.europa.eu/jobs">http://irmm.jrc.ec.europa.eu/jobs</a>.</p> <p><b>Note:</b> only applications received using the form on the IRMM website will be considered.</p>