



2021-IPR-F7-FGIV-016351

**FG IV – SCIENTIFIC PROJECT OFFICER -
DATA SCIENTIST IN DIGITAL HEALTH**

<p>Position for:</p> <p>FGIV – Scientific Project Officer</p>	<p>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.</p> <p>The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: https://ec.europa.eu/jrc/</p> <p>The Knowledge for Health and Consumer Safety Unit, within the Directorate for Health, Consumers and Reference Materials, supports EU policies on consumers, food safety and health by mapping, collating, analysing, quality checking and communicating in a systematic and comprehensible way all the relevant scientific data, methods, tools and knowledge available worldwide in their policy area.</p> <p>The Unit is seeking to reinforce its team with a Data Scientist in Digital Health. The unit is foreseeing deeper involvement in the development and deployment of an ICT infrastructure and, starting with data from medical information systems, other medical scientific data or public available health data, will identify analytics opportunities in the medical scientific area that can contribute to build patient value and patient experience insights. This will be enabled by developing and on-boarding a digital transformation road map using modern techniques including Artificial Intelligence (AI) to unlock the value of the Medical Information (MI) data, improve insight and knowledge generation through advanced data science methods and liaise and engage with a wide range of expertise such as the analysis / interpretation of MI through the use of AI, data mining and visualization approaches.</p> <p>As Data Scientist in Digital Health, you will:</p> <ul style="list-style-type: none">• Contribute to projects that implement new or further advanced methods and tools in order to automate health information processing and enable advanced analytics ;• Using predictive modelling and other advanced analytical methods, contribute to create insights to optimize MI use for citizens, customers and other stakeholders;• Identify and implement innovative analytical solutions, which will enable the exploration of health and medical data:• In collaboration with other experts, design and lead the implementation of analytical environments:• Create, further develop and align, in collaboration with other groups in and outside the organization, international and transdisciplinary data standards and analytical methods for medical information, delivering actionable knowledge;
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	<ul style="list-style-type: none"> • Understand content and structure of MI and other health data and make it available for analysis. <p>Qualifications:</p> <p>Candidates must hold an advanced degree in life sciences / bioinformatics / computer science / (bio)statistics and five years experience with skills in the following areas:</p> <p><u>Life and Medical Sciences</u></p> <ul style="list-style-type: none"> • Scientific leadership combined with flexibility, intellectual curiosity, ideation and eagerness to contribute; • Understanding of medical information concepts, knowledge of life science and medicine concepts. <p><u>Computer Science</u></p> <ul style="list-style-type: none"> • Strong (bio)statistical background with focus on data science; • Experience in text-based unstructured data; • Demonstrable experience for machine learning, data mining and data visualization, preferably applied to biomedical analytical problems with knowledge of the main data types used in biopharmaceutical/medical scientific data; • Theoretical understanding and hands-on experience with a range of supervised and unsupervised machine learning methods. Additional knowledge of Bayesian networks and Bayesian inference techniques would be beneficial; • Practical experience with deep learning frameworks. Additional experience with high performance cloud computing services would be beneficial ; • Technical knowledge of relevant scripting and analytics software, confidence in programming in a Linux / HPC environment would be beneficial. <p><u>Project Management & Communication</u></p> <ul style="list-style-type: none"> • Ability to drive a project and work both independently and in a team; • Excellent English (C1) verbal and written communication. <p><u>Preferred</u></p> <ul style="list-style-type: none"> • Experience with JavaScript and prototyping languages such as Python, R, SQL. • Experience with Java is a plus. • A portfolio of projects (GitHub, papers, etc.) is a plus.
<p>Directorate Unit</p>	<p>Health, Consumers and Reference Materials Knowledge for Health and Consumer Safety</p> <p>Further information: https://ec.europa.eu/jrc/en</p>
<p>Indicative duration</p>	<p>36 months initial contract with possible renewals up to maximum 6 years</p>

<p>JRC Site</p> <p>Country</p>	<p>Ispra</p> <p>Italy</p>
<p>Rules and eligibility</p>	<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>