



2021-IPR-F-000-016788

**SARS-nCoV-2 variants prediction**

<p><b>Position for:</b></p> <p>Trainee</p>	<p>As the science and knowledge service of the Commission, the mission of 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: <a href="http://www.jrc.ec.europa.eu">http://www.jrc.ec.europa.eu</a></p> <p><b><u>Short description of activity:</u></b> The core task of this activity regards scientific/technical activities in the area of mRNA mutations of SARS-CoV-2 virus and variants prediction. Main task will include the study and application of Reinforcement Learning (and Deep Reinforcement Learning) to predict virus mutations and future variants outbreaks. Under the supervision of the advisor, the trainee will contribute to develop an algorithm in order to provide recommendations and predictions on future evolution of SARS-CoV-2 virus. The trainee will have the opportunity to strengthen his/her skills on Artificial Intelligence and to contribute to the other COVID-19 related activities of the Unit.</p> <p><b><u>Qualifications:</u></b></p> <p><u>Essential:</u> University degree in Bioinformatics, Artificial intelligence, Biotechnology or related disciplines.</p> <p>Good Knowledge of spoken and written English (B2 level).</p> <p><u>Advantage:</u></p> <p>Hands-on experience in supervised and unsupervised ML and or Bellman equation and</p>
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	<p>Markov decision process.</p> <p>Publications in this field in English</p> <p><b><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></b></p> <p><a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees">https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</a></p>
<b>Unit /Directorate</b>	<p>Directorate F – Health, Consumers and Reference Materials</p> <p>Knowledge for Health and Consumer Safety Unit</p> <p>Further information: <a href="https://ec.europa.eu/jrc/en">https://ec.europa.eu/jrc/en</a></p>
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	As soon as possible
<b>JRC Site</b>	Ispra
<b>Country</b>	Italy
<b><u>JRC contact details</u></b>	<p><b>For any technical problems with your application, please contact:</b></p> <p><a href="mailto:HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu">HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</a></p>