

JOB OFFER

Position in the project:	Post-Doc
Scientific discipline:	Physics
Job type (employment contract/stipend):	Employment contract (100% FTE)
Number of job offers:	1
Remuneration/stipend amount/month:	c.a. 8 500 PLN/month (2 000 EUR/month) net salary
Position starts on:	01.02.2020
Maximum period of contract/stipend agreement:	1 year
Institution:	Jagiellonian University, Faculty of Physics, Astronomy and Applied Computer Science
Project leader:	Grzegorz Zuzel
Project title:	Radio-pure materials and technologies for science and society
Project description:	For physics frontier experiments, designed to investigate fundamental problems of the Standard Model like non-conservation of lepton number (through neutrino-less double beta decay) or existence of dark matter particles, the expected signals are very weak. The detectors need to have large active masses and simultaneously the background rates, caused by natural radioactivity, must be pushed down to extremely low levels. Comprehensive research program on the background reduction techniques is therefore proposed. It will allow for better understanding of the origin of the most relevant isotopes, and for easier, faster and more confident selection of materials and procedures for applications with the highest radio-purity demands (single-atom level). Finally, the presented project will have crucial impact on future large-scale (ton-scale) experiments in the field of nuclear and astro-particle physics.
Key responsibilities include:	It is expected that the candidate will have experience in at least one of the fields listed below: low background measurements, design and construction of radiation detectors with integrated electronics, hardware programming (FPGA, micro-controllers), radio-chemistry
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. PhD in Physics (preferred nuclear physics) obtained after 2015 2. Documented experience in experimental work with detectors of ionization\EM radiation, data analysis and MC simulations 3. Fluent English
Required documents:	<ol style="list-style-type: none"> 1. Cover letter 2. CV with the list of publications 3. Scan of the PhD diploma 4. Contact for two persons, who could provide recommendations
Please submit the following documents to:	grzegorz.zuzel@uj.edu.pl
Application deadline:	17.01.2020
For more details visit:	www.zdfk.if.uj.edu.pl

Please include in your offer: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."