

Cosmic-Ray Extremely Distributed Observatory,
Institute of Nuclear Physics Polish Academy of Sciences

Kraków, 19.07.2019

JOB OFFER IN HIGH-ENERGY ASTROPHYSICS

position: physicist / specialist / postdoc

The Kraków Group of the Cosmic-Ray Extremely Distributed Observatory (CREDO) is looking for an **outstanding postdoc candidate** interested in the field of high-energy **multi-messenger astrophysics**. The candidates should hold a PhD in physics, astronomy or related fields. We also require at least a general knowledge of the main scientific challenges in high-energy astrophysics, ability to communicate efficiently in English, enthusiasm for science, readiness to travel and team work skills. Experience in the detection of high-energy cosmic rays and skills in object programming will be considered additional advantages.

Questions and applications should be sent until 19.08.2019 to contact@credo.science. Applications should contain scientific CV, publication list, short description of scientific interests and, if possible, recommendation letters. The first interviews are planned on 21.08.2019. The applications received after 19.08.2019 will also be considered, unless the position is filled earlier.

Dr. Piotr Homola, Assoc. Prof. INP PAS

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The Cosmic-Ray Extremely Distributed Observatory (CREDO) (<https://credo.science/>) is an ongoing international project aiming at searching for large scale correlations of cosmic rays. The CREDO strategy is based on operating a global network of cosmic-ray detectors of various sizes and diverse technologies in order to reach sensitivity to cosmic-ray ensembles (CRE): groups of correlated cosmic particles (including photons) that might have energies spanning the whole energy spectrum of cosmic rays. Until recently, cosmic-ray research has been focused on detecting single air showers, while the search for ensembles of cosmic-rays, which may spread over a significant fraction of the Earth surface, is a scientific *terra incognita*. The key idea of CREDO is to combine existing cosmic-ray detectors (large professional arrays, educational instruments, local networks, individual detectors, such as smartphones, etc.) into a worldwide network, thus enabling a global analysis.



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