

JOB OFFER

Position in the project:	Postdoc in particle astrophysics in International Research Agenda AstroCeNT: Particle Astrophysics Science and Technology Centre
Scientific disciplines:	particle astrophysics: dark matter and/or gravitational wave studies; theory and experiment
Job type (employment contract/stipend):	employment contract
Number of job offers:	3
Remuneration/stipend amount/month (<i>"X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"</i>):	15,000 PLN of gross salary (expected net salary: about 8,750 PLN)
Position starts on:	As early as 1 January 2019 (negotiable)
Maximum period of contract/stipend agreement:	2 years, extendable until the end of the Project (2023), subject to periodic evaluations (tenure type afterwards)
Institution:	Astrocent Department of the Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences
Project leaders:	Leszek Roszkowski (leader), Tomasz Bulik (co-leader)
Project title:	<p>AstroCeNT: Particle Astrophysics Science and Technology Centre</p> <p><i>(The project is carried out within the International Research Agendas Programme of the Foundation for Polish Science)</i></p>
Project description:	<p>On the physics side, research at Astrocent will be primarily focused on studies of gravitational waves and dark matter, as well as in related topics of astronomy, particle cosmology and particle physics. On the technological side, our prime objective will be to specialise in R&D on ultra-sensitive instruments for low background and low count rate particle astrophysics experiments, primarily, but not exclusively, in:</p> <ul style="list-style-type: none"> • dark matter searches, in particular modules of silicon photomultipliers, as part of DarkSide and Global Argon Dark Matter collaborations, and • gravitational waves, especially seismic sensors, as part of Advanced Virgo/Ligo and the Einstein Telescope collaborations. <p>In the first instance, Astrocent will comprise a minimum of six international research groups of physicists and engineers:</p> <ul style="list-style-type: none"> • particle astrophysics (leader: Professor Leszek Roszkowski); • gravitational waves and seismic sensors (leader:

	<p>Professor Tomasz Bulik);</p> <ul style="list-style-type: none"> • systems of silicon photomultipliers for particle astrophysics and medical physics; • advanced electronics; • big data acquisition and processing; • IT programming. <p>However, it is envisaged to engage in other areas of the field, and in exploring potential applications in hi-tech industry and medicine as well. In about two years the Center is expected to reach the size of about 40 researchers, including group leaders, their teams, PhD students and visitors working in an international, English-speaking environment. The Center is led by Professor Leszek Roszkowski.</p> <p>Astrocent plans to develop close collaborative links with several institutions in Europe and outside, in particular with our strategic partner APC (Astroparticles and Cosmology Laboratory) in Paris.</p> <p>Astrocent is conveniently located in the city center, with easy access from rail stations and airports. It occupies a suite of spacious and modern labs and offices on top floor of a modern building, https://www.cziitt.pw.edu.pl/?lang=en of Warsaw University of Technology. The site is also well connected with Physics Department of Warsaw University and the main site of the Nicolaus Copernicus Astronomical Center.</p>
Key responsibilities include:	<ol style="list-style-type: none"> 1. To make significant contributions to frontline research on gravitational waves and dark matter, theory or experiment, as well as in related topics of astronomy, particle cosmology and particle physics, within the activities of the particle astrophysics group at Astrocent. 2. To be open to co-operation with the other research teams at Astrocent. 3. To be prepared to apply for grants.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. Leading researchers in particle astrophysics — experiment or theory — with a significant achievements in particle physics and astrophysics, in particular in dark matter and/or gravitational wave studies. 2. Ability to work and collaborate in research teams in a competitive environment. 3. Potential to attract grant funding.
Required documents:	<ol style="list-style-type: none"> 1. curriculum vitae, 2. statement of research interests, 3. publication list, 4. photocopy of PhD diploma, 5. three or four letters of reference, 6. scan of signed GDPD form (available from https://www.camk.edu.pl/en/about/ochrona-danych-osobowych/#rodcent).
We offer:	<ol style="list-style-type: none"> 1. Stimulating, international, English speaking research environment in a new center of excellence;

	<ol style="list-style-type: none"> 2. Possibility to develop frontline research in particle astrophysics, in collaboration with the other teams of Astrocent and with our strategic partner APC; 3. Funding for research, travel and basic equipment. 4. Scientific, organizational and technical support, including standard research facilities.
Please submit the following documents to:	office@astrocent.pl
Application deadline:	10 December 2018
For more details about the position please visit (website/webpage address):	https://www.camk.edu.pl/en/research/projects/astrocent/
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/352497