

## JOB OFFER

Position in the project:	Young doctor (Postdoc)
Scientific discipline:	Physics, Sub Research Field: Condensed matter physics
Job type (employment contract/stipend):	Postdoc (EURAXESS: Recognized Researcher – R2), contract, full-time
Number of job offers:	1
Remuneration/stipend amount/month (“X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN”):	12 000 PLN per month (2 600 € per month), health insurance covered; less than 24% in employee taxes and social security contributions
Position starts on:	To be arranged with a candidate
Maximum period of contract/stipend agreement:	Contract till 31st December 2023
Institution:	Institute of Physics, PAS, Division ON-6: International Centre for Interfacing Magnetism and Superconductivity with Topological Matter – MagTop
Project leader:	Prof. Tomasz Dietl, Prof. Tomasz Wojtowicz
Project title:	International Research Agenda: International Centre for Interfacing Magnetism and Superconductivity with Topological Matter
Project description:	<p>The <a href="#">International Centre for Interfacing Magnetism and Superconductivity with Topological Matter – MagTop</a> is the Division (ON-6) of the Institute of Physics PAS (<a href="http://www.ifpan.edu.pl/index_en.php">http://www.ifpan.edu.pl/index_en.php</a>) and is funded by a grant won by Professors <a href="#">Tomasz Dietl</a> and <a href="#">Tomasz Wojtowicz</a> within the programme of the Foundation for Polish Science, carried out from the funds of the European Regional Development Fund under the Smart Growth Operational Programme (SG OP), Priority Axis 4: Increasing the research potential, Measure 4.3: International Research Agendas (<a href="http://www.fnp.org.pl/en/oferta/international-research-agendas-ira/">http://www.fnp.org.pl/en/oferta/international-research-agendas-ira/</a>). The Team Leaders are selected <i>via</i> international competitions under the supervision International Scientific Committee chaired by Prof. Laurens W. Molenkamp. MagTop activities involve strong local and international collaborations, the strategic partner unit being Julius-Maximilians-Universität Würzburg, Germany, particularly the Institute EP3 headed by Professor Laurens W. Molenkamp.</p>
Key responsibilities include:	<p>Conducting research of topological matter in one of MagTop’s theoretical teams, see: <a href="http://www.magtop.ifpan.edu.pl/">http://www.magtop.ifpan.edu.pl/</a>; in particular, the postdoc will perform relativistic first-principle calculations of topological materials or twisted 2D materials, including</p>

	description of surface states, calculation of topological invariants and transport properties such as Anomalous Hall effect and Spin-Hall effect.
Profile of candidates/requirements:	Ph.D. in condensed matter physics or related disciplines completed less than 5 years ago, experience in studies of topological matter reflected in the publications will be an advantage. Candidates with good experience in the usage of the following computational techniques are highly preferred: knowledge of the wannier90 code, knowledge of the wanniertools code, use of techniques for strongly correlated electrons within the Quantum espresso code, knowledge of the Mathematica software. Very good knowledge of written and spoken English is required.
Required documents:	<ul style="list-style-type: none"> <li>• Detailed CV (up to 3 pages)</li> <li>• Full list of publications</li> <li>• Cover/motivation letter, please mention earliest possible starting date (1 page)</li> <li>• Contact details to two references</li> </ul>
We offer:	Visit: <a href="#">International Research Centre MagTop</a>
Please submit the following documents to:	All materials should be submitted in electronic form to <b>2 addresses</b> : <a href="mailto:jobs@ifpan.edu.pl">jobs@ifpan.edu.pl</a> with Job ID (#JOB24/2022) in the subject, <a href="mailto:open_positions@MagTop.ifpan.edu.pl">open_positions@MagTop.ifpan.edu.pl</a>
Application deadline:	July 8, 2022, later applications may be considered
For more details about the position please visit (website/webpage address):	<a href="#">International Research Centre MagTop</a>
Euraxess job/stipend offer (in case of PhD and postdoc positions):	<a href="https://euraxess.ec.europa.eu/jobs/791809">https://euraxess.ec.europa.eu/jobs/791809</a>

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.”