



Poznań, December 23, 2021

**Institute of Spintronics and Quantum Information,
Faculty of Physics, Adam Mickiewicz University, Poznań**
<https://isik.amu.edu.pl>

announces a call for the post-doc position. The position is financed by the National Science Center of Poland as a part of the OPUS-19 call for the research project: *"New platform for study wave phenomenon – reconfigurable topological properties and frustrated ground states in magnonics"*, no 2020/37/B/ST3/03936, coordinated by prof. Maciej Krawczyk.

The position is addressed to a researcher possessing a Ph.D. degree not longer than 7 years and interested in theoretical studies, and numerical simulations in the area of spin-wave dynamics in ferromagnetic nanostructures.

Requirements:

- Research experience in numerical modeling and/or developing analytical models in solid state physics or electromagnetism, in particular in the area of magnetism;
- Very good publication track record in the relevant areas;
- High motivation to work, independence, and good organization of work;
- Ability to work in an international team.

According to the NCN rule, the PhD degree has to be awarded by another institution than AMU.

Task description:

Performing micromagnetic simulations and/or use of the analytical models for description of the remagnetization process and spin-wave dynamics in the antidot lattices (ADLs) based on perpendicular magnetic anisotropy (PMA) thin films with inhomogeneous magnetization. Writing the manuscripts and supervising the PhD and master students.

Project type: NCN OPUS-19 – ST3.

Deadline for application submission: January 30, 2022, 23:59 (CET).

Submission form: email to krawczyk@amu.edu.pl.

Conditions:

- Duration: 12 months (with possible prolongation for the next 24 months);
- Form of employment: contract;
- Financing amount: PLN 10,000 per month (brutto-brutto);
- Starting date: 01.03.2022.

Candidates are asked to send an application consisting of:

- confirmation of the PhD degree;
- an application with a cover letter in Polish or English;

- the reference letter from the experienced researcher;
- a resume\CV containing information on the previous education, publications, participation in research projects, internships, scholarships, awards, and a short description of the best research achievements of the candidate.

The application or questions should be sent to the project coordinator by email to Maciej Krawczyk [krawczyk@amu.edu.pl]. Selected persons may be invited for a remote interview.

The competition will end once a suitable candidate has been found.

The candidate is required to place in CV the following agreement:

"In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 (Journal of Laws of the EU L 119/1 of 4 May 2016) I agree to the processing of personal data other than those indicated in Article 221 of the Labour Code (name(s) and surname; parents' names; date of birth; place of residence; address for correspondence; education; previous employment), included in my job offer for the purpose of the current recruitment."



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announces a call for the post-doc position. The position is financed by the National Science Center of Poland (NCN) as a part of the OPUS-20 LAP call for the research project: *"Guiding, shaping and amplifying signals in strongly coupled electromagnetic-magnonic circuits"*, no 2020/39/I/ST3/02413, coordinated by prof. Maciej Krawczyk and conducted in the collaboration with the group of prof. Jamal Berakdar, Martin Luther University Halle-Wittenberg, Halle, Germany.

The position is addressed to a researcher possessing Ph.D. degree not longer than 7 years and interested in theoretical studies, and numerical simulations in the cross-disciplinary area of photonics and magnonics.

Requirements:

- Research experience in analytical models and/or numerical modeling in photonics or solid-state physics, in particular in the area of photonics-magnonics;
- Very good publication track record in the relevant areas;
- High motivation to work, independence, and good organization of work;
- Ability to work in an international team.

According to the NCN rule, the Ph.D. degree has to be awarded by another institution than AMU or the candidate has completed a continuous and evidenced post-doctoral fellowship of at least 10 months in another institution than AMU and in another country than Poland.

Task description:

Developing the computational and analytical models for the description of the electromagnetic – spin-wave coupled system. Performing studies for control of spin waves with resonant microwave elements, and nonlinear dynamics of the spin-wave resonant elements. Writing the manuscripts and supervising the Ph.D. and master students.

Project type: NCN OPUS-20 LAP – ST3.

Deadline for application submission: January 30, 2022, 23:59 (CET).

Submission form: email to krawczyk@amu.edu.pl.

Scholarship conditions:

- Duration: 12 months (possible prolongation for the next 24 months);
- Form of employment: contract;
- Financing amount: PLN 10,000 per month (brutto-brutto);

- Starting date: 01.03.2022.

Candidates are asked to send an application consisting of:

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