



Apply for

MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOWSHIPS AND WIDENING FELLOWSHIPS

with the **Warsaw University of Technology, the Faculty of Physics**

POLITECHNIKA WARSZAWSKA (WARSAW UNIVERSITY OF TECHNOLOGY, WUT) is a technical research university with traditions in education dating back to the nineteenth century. It is a forward-thinking institution where high-quality education meets world-class research and innovation. WUT is ranked number one among all technical universities in Poland. WUT offers education at all levels: B.Sc., M.Sc. and Ph.D. degree studies in every field of technology – ranging from civil engineering and architecture to optoelectronics, materials nanotechnology, biotechnology and biomedical technology. Highly qualified staff conducts research in almost all areas of technology and a number of non-technical disciplines (including management, business and administration) at 19 faculties and 1 college. WUT employs 2494 academic teachers, with 535 professors, and 2499 technical and administrative staff. The number of students is over 30 000, mostly full-time (including more than 1500 postgraduate students). The university has about 5500 graduates per year.

WUT's acclaimed reputation is proved by more than 100 international academic and research cooperation agreements with universities, research centres and high-tech industries from 50 countries all around the world. International partnerships, continuous quality improvement and a stronger profile – these top priority areas are heavily emphasized and developed in order to enhance the position of WUT as a leading university of technology and attain its long-term goal – internationalization and integration of political, economic and academic network.

The University actively participates in Horizon 2020 Framework Programme, it has been involved in 33 projects (3 coordinated by WUT), including 11 MSCA projects: 6 MSCA-ITN projects: AMBER, CELTA, CHANGE, INSPIRATION, MgSafe, PRINT-AID, and 5 MSCA-RISE projects: GETM3, IMAGE, Knocky, RENOIR (coordinated by WUT), SKPLUS.

**Warsaw University
of Technology**

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MSCA INDIVIDUAL AND WIDENING FELLOWSHIPS

(https://ec.europa.eu/research/mariecurieactions/actions/individual-fellowships_en) are prestigious grants intended for talented, experienced researchers from across the world. For the application, you must have a doctoral degree or at least four years of full-time research experience by the time of the call deadline (**September 11th, 2019.**) The proposal is prepared by an applicant in cooperation with the host institution.

The researcher must move or have moved (transnational mobility) to the country where the host institution is located. **The mobility rule applies.** For the Standard European Fellowship the researcher must not have resided or carried out his/her main activity (work, studies, etc.) in the country of host institution for more than 12 months in the 3 years immediately before the call deadline.

MSCA Widening Fellowships (<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/wf-02-2019>) aim at **increasing the number of individual MSCA fellowship** grants in so-called Widening countries, including **Poland**.

APPLICATION FOR A MSCA INDIVIDUAL FELLOWSHIP IN POLAND INCREASES YOUR CHANCES OF SUCCESS!

THE MSCA-IF GRANT provides an allowance to cover living, travel and family costs, and training, networking and research costs at the host institution.

In the case of Poland, they amount to:

- Living allowance (gross amount): 3 382 €/month,
- Mobility allowance: 600 €/month
- Family allowance: 500 €/month
- Institutional unit research, training and networking cost: 800 €/month

Guide for Applicants for Marie Skłodowska-Curie Actions Individual Fellowships:

http://ec.europa.eu/research/participants/data/ref/h2020/other/guides_for_applicants/h2020-guide-appl-msca-if-2018-20_en.pdf (2018 version, document for the 2019 call will be available in April 2019)

MSCA Individual Fellowship 2018 Handbook:

http://net4mobilityplus.eu/fileadmin/user_upload/N4M_2b_MSCA_IF_Handbook_2018_0_.pdf



HOW TO APPLY WITH THE FACULTY OF PHYSIC AT WUT?

1. **By May 6th, 2019:** Send a short description (up to 2 pages) of your research proposal together with a scientific CV and list of five most important papers to msca@fizyka.pw.edu.pl. We will try to match your proposal with a scientific tutor/supervisor at the Faculty of Physics at WUT. **You will find a list of possible research areas below.**
2. **By May 24th, 2019** we will inform you whether we identified a scientific synergy and found a suitable tutor/supervisor at the Faculty of Physics.
3. **By the end of July 2019**, a draft application should be written, which will be evaluated by the EU team at WUT to provide feedback.
4. Final MSCA-IF application by **September 11th, 2019**.

THE FACULTY OF PHYSICS OF THE WARSAW UNIVERSITY OF TECHNOLOGY INVITES APPLICATIONS IN THE AREA OF:

- **High energy nuclear physics**, including research projects within:
 - the STAR experiment at RHIC, Brookhaven National Laboratory
 - the ALICE experiment and the LHC accelerator complex at CERN
 - the NA61/Shine experiment and the SPS accelerator complex at CERN
 - the MPD project and the NICA complex in Joint Institute for Nuclear Research, Dubna
- **Medical physics**
 - Monte Carlo simulations & 3D printing in radiotherapy
- **Theory of strongly interacting Fermi systems**
 - Nuclear dynamics: fission & fusion, induced fission, low energy reactions
 - Neutron stars: structure and stability issues, superfluid properties
 - Ultra-cold atomic gases: exotic phases, superfluid dynamics, quantum turbulence
- **Computational physics**
 - Large scale simulations of quantum systems, supercomputing
- **Optics and optoelectronics**
 - Diffractive optical elements, terahertz (THz) optics, beam shaping



- **Synthesis and applications of new 2D materials**
 - CVD and 'green' liquid exfoliation of 2D materials
 - Applications: nanocomposites, nanoelectronics, biotech, photonics, thin films
- **Energy materials**
 - Solid-state batteries
 - Electrolyte and electrodes materials, devices design, fabrication and testing