



# EURIZON Fellowship Programme: Remote Research Grants for Ukrainian Researchers

3 1 квітня 2023 р. до 8 травня 2023 р.

Часовий пояс Europe/Berlin

Введіть термін для пошуку

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### **EURIZON Fellowship: Remote Research Grants for Ukrainian Researchers**

Overview: Call for Fellowships

Application Online Form

Application Documents

NOTICE BOARD for collaborations

Further materials

FAQ - Frequently Asked **Questions** 

EURIZON WP9 Secretariat (Before contacting the EURIZON Secretariat, please check if your questions are not already answered in the FAQ section). For further questions:

□ applications@eurizon-pr...

## Реєстрація

Online Application Form



Реєстрацію відкрито Кінцева дата 8 трав. 2023 р.



#### Контактна інформація

Before contacting the EURIZON Secretariat, please check if your questions are not already answered in the FAQ section. For further questions: applications@eurizon-project.eu

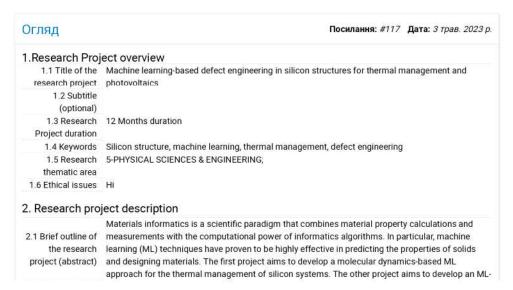
Applicants are requested to read carefully the terms of reference (ToR) before applying. Applications must be submitted by the Principal Investigators (PIs), in English, on behalf of their research teams from Ukraine before the deadline May 8th, 2023 at 12.00 PM (noon) CET.

The Online Application Form MUST be completed in all its parts and needs to include the following compulsory templates:

- · Research Project Description template: template to be downloaded, filled, signed by all team members and uploaded as PDF file;
- · Self-declaration template: template to be downloaded, filled, signed by the PI on behalf of the whole team and uploaded as PDF file;
- Resume (CV) of the team members: max 3 pages for the PI, max 2 pages for other team members, uploaded as one single PDF file;
- · Publication list (only for PI and researchers): most recent and/or most relevant publications list (max 2 pages for PI, max 1 page for other team members) uploaded as one single PDF file;

Privacy Notice: Please, be aware that by applying to the Remote Research Grant Fellowship programme, you agree that the personal data and documents that you provide to the EURIZON Secretariat and Evaluation Committees will be stored and processed for the purpose of participating in the Fellowship Programme application procedure. The personal data and documents will be stored and processed according to DESY Data Privacy Policy: https://www.desy.de/data\_privacy\_policy/index\_eng.htm





based method to extract defect concentration from the current-voltage characteristics of solar cells. The projects involve data collection and preparation, machine learning model development, and experimental investigations. Data will be collected from simulations. The simulation of thermal transport in silicon structures will be performed using the molecular dynamics method in the LAMMPS package and/or kALDo software. The current-voltage characteristics of silicon solar cells will be calculated using SCAPS software. Machine learning models will be developed using various algorithms, including dense neural networks, random forest, and convolutional neural networks, implemented using the TensorFlow platform. Photoacoustic experiments will be used to evaluate the thermal transport properties of the fabricated porous silicon. The developed method for defect evaluation will be tested on actual silicon solar cells. The expected outcomes of the proposed research project are the development of ML models for thermal management and defect evaluation, the creation of open-access data collection, and an approach to enhance thermoelectric performance in silicon structures. These results are significant for the development of efficient and reliable solar photovoltaic modules and thermal management systems.

2.2 RESEARCH EURIZON Fellowship\_Research Project Description \_Final.pdf PROJECT

DESCRIPTION

TEMPLATE: research project

full description.

impact.

dissemination and

collaboration with

the European partners

## 3. European Partner(s)

3.1 European Prof. David LACROIX

partner(s) first

name and last

name

3.2 European david.laxroix@univ-lorraine.fr

partner(s) e-mail

address

3.3 Name, address LEMTA, Université de Lorraine, CNRS, 2 avenue de la Forêt de Haye, 54505 Vandœuvre-lès-Nancy, and/or website of France https://lemta.univ-lorraine.fr/en/home/

the European RIs/Institute(s) of

affiliation of the

European Partner

3.4 Have you Yes, I have already contacted them

already contacted the suggested

partners?

3.5 (optional) SupportingDocument.pdf

Supporting

document from

European partners

### 4. Principal Investigator (PI)

Title Prof.

4.1 First Name Oleh

(English alphabet)

4.2 Family Name Olikh

(English alphabet)

4.3 Gender M

4.4 Date of birth 05/06/1974

4.5 Citizenship Ukraine

4.6 Email Address olegolikh@knu.ua

4.7 Current Mayakovskogo Prospect 32, ap.280, Kyiv, 02222, Ukraine

personal address

4.8 Country of Україна

current residence

4.8 (ii)

4.9 Phone Number +380673169020

4.10 Affiliation Taras Shevchenko National University of Kyiv, I am still affiliated to the institute.

Institute

4.11 Affiliation Volodymyrska Street 64/13, Kyiv, 01601, Ukraine

Institute address

4.12 Affiliation https://knu.ua

institute website 4.13 Position

Professor at Department of General Physics, I am in the same position.

4.14 Knowledge of English

Good

4.15 Details of the Dr. Hab., Physics and Mathematics, solid-state physics specialty, thesis «Acoustically and radiation doctoral degree induced phenomena in surface barrier silicon and gallium arsenide structures», 2018

4.16 Institute of graduation 4.17 Possible experience in managing international collaborations (optional)	Taras Shevchenko National University of Kyiv, Volodymyrska Street 64/13, Kyiv, 01601, Ukraine
5. Research team overview	
5.1 Does your team include women researchers?	Так
5.2 Does your team include young researchers (<35 years old)?	Так
5.3 Number of team members (including the PI)	More than 5 Members
6. Self-declaration statement	
Self-declaration statement	Self-declaration of vulnerability.pdf
7. Resumes (CV) of the team members	
CV of the research team members	CVs.pdf
8. Publication Lists	
Publication list (applicable only for the researchers of the team)	Publications.pdf
9. Recommendations letter (OPTIONAL)	
Recommendation letters (optional)	
Privacy options	
Видимість	Your participation will only be visible to organizers of this event.

Використайте посилання, аби повернутися назад до цієї сторінки. Зберігайте його у таємниці, так як вам не потрібно заходити у свій профіль, аби використовувати його.

https://indico.desy.de/event/38700/registrations/5404/?token=8430f7ea-ec47-4dcd-b69c-d748b5d01177

