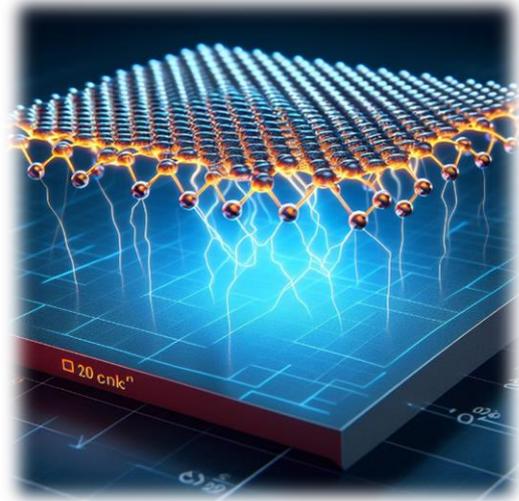


Widening Country Inspiration Story

“Explore unique solutions to meet market demands.”

Organisation name: Graphene Energy
Organisation type: Small and medium-sized enterprise
Country: Poland
Project Acronym: Piezo2D
Project start and end date: 01.10.2023-30.09.2027
Type of MSCA, Horizon Europe: Staff Exchanges
Is your organisation a coordinator? No



What is your project about?

During the Piezo2D project, we developed innovative structures with a strong piezoelectric effect, aiding scientists in understanding this phenomenon in two-dimensional materials. This breakthrough opens the door for societal advancements, enabling the creation of miniaturised devices capable of generating their own electricity, for example medical sensors operating without external power sources. There is also a plan to develop several prototypes for mechanical energy harvesting.

Why is your project important for society?

From a societal perspective, implementing a project focused on creating efficient, miniaturised self-powered devices will pave the way for the development of innovative, eco-friendly technologies. Moreover, devices that operate without the need for additional power sources—eliminating the necessity for charging or battery replacement—can notably enhance patient comfort, especially in the case of medical sensors. The advancement of systems based on piezoelectrics will further contribute to

the rapidly expanding field of the Internet of Things (IoT).

What communication and public engagement measures have you foreseen?

The project's findings will be disseminated through a dedicated website and high-impact, open-access journal publications. Additional activities, including workshops, open days, TV interviews, and publications in non-scientific journals, are also planned. Profiles on YouTube, Facebook, and X will be created to target not only the scientific community but also a wider audience.

What kind of support did you get?

National Contact Points can answer many questions about the application process, while periodic webinars present the projects principles and offer a platform for questions. Additionally, utilising the [Frequently Asked Questions section on the Funding and Tenders Opportunities Portal](#) is advisable.

Do you have other successful projects under Horizon 2020/ Horizon Europe? Yes.

If yes, what in your experience helped you to succeed?

In our case, experience from the previous [FUNCOAT project](#) proved invaluable. As a beginner in the application process, I found that regular meetings with future consortium members during the preparation stage were crucial. It is essential to thoroughly read and address each point of the application, focusing on what is important for each aspect. For the Staff Exchanges project, the key emphasis should be on demonstrating how knowledge exchange will occur between partners during project implementation and how each partner stands to benefit from this collaboration.

How did you find the partners in your consortium?

Collaborating with scientific units and engaging with innovative scientists worldwide at conferences and fairs facilitates the creation of a valuable network, which can later be leveraged to establish a consortium. If the company lacks existing contacts, [the partner search engine on the Funding and Tenders Opportunities Portal](#) is a useful tool. Additionally, exploring profiles on platforms like ResearchGate and LinkedIn allows for direct contact with scientists in relevant fields.

What tips can you give other organisations that would like to apply for MSCA?

- Explore unique solutions to meet market demands.
- Attract scientists with diverse expertise to devise innovative answers to unconventional problems.
- Develop solutions that streamline processes, reduce costs, contribute to

societal advancement and develop the competences of individuals engaged in the project.

- Consider creating a product with long-term societal impact.

More information on the project:



The Marie Skłodowska-Curie Actions (MSCA) support researchers at all stages of their career across all disciplines. The MSCA also support cooperation between industry and academia and provide innovative trainings and career developments.

The MSCA Staff Exchanges (SE) funds short-term international and inter-sectoral exchanges of staff members involved in research and innovation activities with the aim to develop sustainable collaborative projects between different organisations from the academic and non-academic sectors (in particular SMEs), based in Europe and beyond.

The MSCA-NET project is the MSCA NCP project to facilitate the transnational cooperation to achieve a consistent and harmonised level of NCP support. The scientific community can also profit from our project to support their MSCA application.

