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Mykola Melnychuk

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WORK EXPERIENCE

LUTSK NATIONAL TECHNICAL UNIVERSITY – LUTSK, UKRAINE
VICE-RECTOR FOR PARTNERSHIP – 01/09/2025 – CURRENT

- strategic leadership and planning
- international relation and cooperation
- academic and research collaboration
- managment and coordination
- policy and compliance

LUTSK NATIONAL TECHNICAL UNIVERSITY – LUTSK, UKRAINE
UNIVERSITY DEPARTMENT HEAD – 01/09/2015 – 31/08/2025

- team management;
- scientific work;
- teaching work

LUTSK NATIONAL TECHNICAL UNIVERSITY – LUTSK, UKRAINE
DEPUTY DEAN – 01/09/2013 – 01/09/2015

- management of international activities of the Faculty of Technology

LUTSK NATIONAL TECHNICAL UNIVERSITY – LUTSK, UKRAINE
SENIOR LECTURER – 01/09/2007 – 01/09/2012

- teaching courses "Technology of structural materials", "Welding production"

JAN DLUGOSZ UNIVERSITY IN CZESTOCHOWA – CZĘSTOCHOWA, POLAND
VISITING PROFESSOR – 01/09/2020 – CURRENT

- elective course of 60 academic hours

COMPANY "BOGDAN MOTORS" – LUTSK, UKRAINE
DESIGN ENGINEER – 01/01/2003 – 01/09/2007

- design of non-standard equipment
- CAD-CAM-CAE

NATIONAL AGENCY FOR QUALITY ASSURANCE IN HIGHER EDUCATION OF UKRAINE – KYIV, UKRAINE

EXPERT – 01/09/2020 – CURRENT

- examination of educational programs in the field of Mechanical Engineering

DEPUTY HEAD OF THE SECTORAL COUNCIL FOR MECHANICAL ENGINEERING – 01/10/2021 – 01/10/2025

- examination of educational programs in the field of Mechanical Engineering

EDUCATION AND TRAINING

01/10/2005 – 01/06/2011 Lutsk, Ukraine
PHD OF MATERIALS SCIENCE Lutsk national technical university

Website https://lntu.edu.ua/en

01/09/1996 – 30/06/2001 Lutsk, Ukraine
MSC OF MATERIALS ENGINEERING Lutsk national technical university

30/03/2021 – 10/06/2021 Kyiv
SMART PRODUCTION. ADDITIVE MANUFACTURING. FESTO

01/08/2019 – 30/08/2021 Stockholm , Sweden
APPROACHES TO THE INTRODUCTION OF STUDENT CENTERED LEARNING Royal Institute of Technology

Website https://www.kth.se/en

01/12/2013 – 21/12/2013 Stockholm, Sweden
PARTICIPATORY BACKCASTING APPROACH FOR STRATEGIC PLANNING TOWARDS SUSTAINABILITY IN CITIES Royal Institute of Technology

LANGUAGE SKILLS

Mother tongue(s): **UKRAINIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
POLISH	B2	B2	B2	B2	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Autocad and Solidworks | Microsoft Excel | Microsoft Office | Lab Software: Origin Professional, Chem Draw Professional 16.0, ACD, MestReNova | MathLab: basic level | Project writing, project development &project management

PUBLICATIONS

Research work

NEW RESEARCH PROJECTS:
Development of ecological light composite materials with the use of industrial waste and various mineral fillers.
Development environmentally friendly materials on a natural fillers basis, as an alternative to plastics, in particular for additive manufacturing

1. Bazan, P.; Rochman, A.; Mroczka, K.; Badura, K.; Melnychuk, M.; Nosal, P.; Węglowska, A. Composites Based on PLA/PHBV Blends with Nanocrystalline Cellulose NCC: Mechanical and Thermal Investigation. Materials 2024, 17, 6036 / URL: https://doi.org/10.3390/ma17246036
2. Bazan, P.; Kozub, B.; Rochman, A.; Melnychuk, M.; Majewska, P.; Mroczka, K. Vibration Welding of PLA/PHBV Blend Composites with Nanocrystalline Cellulose. Polymers 2024, 16, 3495 / URL: https://doi.org/10.3390/polym16243495
3. Bazan, P.; Figiela, B.; Kozub, B.; Łach, M.; Mróz, K.; Melnychuk, M.; Korniejenko, K. Geopolymer Foam with Low Thermal Conductivity Based on Industrial Waste. Materials 2024, 17, 6143 / URL: https://doi.org/10.3390/ma17246143
4. Polivoda, N., Melnychuk, M., Kozub, B., Ostapchuk, R., Babych, Y. (2025). Properties of Perlite-Based Geopolymer as a Thermal Insulation Material for Building Efficiency. In: Silva, F.J.G., Ivanov, V., Pinto, A.M.G., Sales-Contini, R.d.C.M. (eds) Advances in Design, Simulation and Manufacturing VIII. DSMIE 2025. Lecture Notes in Mechanical Engineering. Springer, Cham. / URL: https://doi.org/10.1007/978-3-031-96413-8_8
5. Melnychuk, M., Shevchuk, I., Kashytskyi, V., Feshcuk, Y., Polivoda, N. (2023). Mechanical Properties of Hybrid Composites Based on Polypropylene Modified with Natural Fillers. In: Ivanov, V., Pavlenko, I., Liaposhchenko, O., Machado, J., Edl, M. (eds) Advances in Design, Simulation and Manufacturing VI. DSMIE 2023. Lecture Notes in Mechanical Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-32774-2_22
6. Łach, Michał, Barbara Kozub, Sebastian Bednarz, Agnieszka Bąk, Mykola Melnychuk, and Adam Masłoń. 2024. "The Influence of the Addition of Basalt Powder on the Properties of Foamed Geopolymers" Materials 17, no. 10: 2336. / URL: https://doi.org/10.3390/ma17102336
7. Nykiel, Marek, Kinga Korniejenko, Kinga Setlak, Mykola Melnychuk, Nina Polivoda, Barbara Kozub, Maria Hebdowska-Krupa, and Michał Łach. 2024. "The Influence of Diatomite Addition on the Properties of Geopolymers Based on Fly Ash and Metakaolin" Materials 17, no. 10 / URL: https://doi.org/10.3390/ma17102399
8. Kozub, B.; Dudek, J.; Melnychuk, M. The Effect of Oil Additives on the Properties of Fly Ash-Based Foamed Geopolymers. Materials 2024, 17, 5819. / URL: https://doi.org/10.3390/ma17235819

RESEARCH EXPERTISE:

01/01/2015 – CURRENT

JOB-RELATED SKILLS

- A deputy chairman of the Scientific and Methodological Commission under the Ministry of Education and Science of Ukraine
- A member of the Specialized Academic Council on the specialty - "Materials Science"
- A member of the program committee of the international conference "Design, Simulation, Manufacturing: The Innovation Exchange".

MANAGEMENT AND LEADERSHIP SKILLS

PROJECT MANAGEMENT SKILLS

Project Manager at LNTU for several projects:

1. **2025-2028 ERASMUS+ CBHE Program** "University Infrastructure for Workforce Development focusing on Twin Transition" (UniTwin)
2. **International Scientific Project** STARS-CUT UA from NAWA at LNTU, Grant No. BNI-UE-2023-8, from 01.01.2024 to 01.01.2025
3. **2020-2024 ERASMUS+ CBHE Program** "Boosting the Role of HEIs in the Industrial Transformation towards the Industry 4.0 Paradigm in Georgia and Ukraine" (HEin4.0)
4. **2019-2020 SI Program** "Modernization of Internationalization Tool Practice and Competence of the Staff to Support Student-Focused Learning in East Partnership Universities" (INTERTOOL)
5. **2017-2018 EU EaPTC Partnership Belarus-krainеProgram** "Enhancing the Competitiveness of Graduates in the Labor Markets of Ukraine and Belarus through the Creation of a Transboundary Regional Network of University Centers for Vocational and Career Counseling" under the EaPTC Partnership Belarus-Ukraine
6. **2013-2016 TEMPUS IV Program** "Modernization of two cycles (Master's and Bachelor's) of competence-based curricula in Material Engineering according to the best practices of the Bologna Process" (MMATENG)
7. **2012-2015 TEMPUS IV Program** "Modernizing Higher Engineering Education in Georgia, Ukraine, and Uzbekistan to Meet Technological Challenges" (ENGITEC)