

CURRICULUM VITAE

| 1. PERSONAL INFORMATION | |
|------------------------------------|---|
| First name: | Oleg |
| Family name: | Zabolotnyi |
| Date of birth and place: | 03.11.1975, Ukraine |
| Nationality: | Ukrainian |
| Civil status: | Married |
| Contacts: - phone | +380505850276 |
| - e-mail | volynasi@gmail.com o.zabolotnyi@lntu.edu.ua |
| Scientific Degree, specialty | Ph.D. in Engineering, «Powder Metallurgy and Composite Materials» |
| Academic Rank | Associate Professor of |
| Department | Applied Mechanics and Mechatronics |
| Affiliation | Lutsk National Technical University (LNTU) |
| Other Position | Head of SDTB «Innovation Park» LNTU |
| Qualifies an Expert on specialties | Materials Science and Applied Mechanics |
| Research interests: | Development of Energy-Efficient Technologies for Creating New High-Performance Powder & Composite Eco-Materials. Industry 4.0/5.0 Technologies: Smart Automation, IoT&DS |



2. EDUCATION AND DEGREES RECEIVED

| Dates | Organisation, Department | Degree | Qualification & Diploma Received |
|-----------|--|--------|--|
| 1992-1997 | Lutsk Industrial Institute, Student of Engineer-Designer Faculty | MSc | Engineer-Mechanic Qualification and Diploma of Specialist in specialty «Metal-Cutting Machine Tools and Systems» |
| 1997-2001 | Lutsk State Technical University, Post-Graduate student of Materials Science Department | | Engineer-Researcher Qualification in specialty «Powder Metallurgy and Composite Materials» |
| 2004 | National Technical University of Ukraine «Kyiv Polytechnic Institute» | Ph.D | Scientific Degree Ph.D. in Engineering and Diploma of Candidate of Engineering Sciences (Ph.D.) in specialty «Powder Metallurgy and Composite Materials» |
| 2005 | Lutsk National Technical University, Computer Machine-Tools Design and Machine-Building Technologies Department | | Academic Rank and Diploma of Associate Professor of Computer Machine-Tools Design and Machine-Building Technologies Department |
| 2007-2009 | Lutsk National Technical University, Student of Business Faculty | MSc | Qualification and Diploma of Master's Degree in specialty «Management of innovative activity» |

3. PROFESSIONAL EXPERIENCE

| Dates | Location | Company | Position | Activity and Responsibility |
|-------------------------|----------------|-------------------------------------|-------------------------------|---|
| 01.09.1999 – 26.04.2004 | Lutsk, Ukraine | Lutsk National Technical University | assistant lecturer | Teaching and scientific work |
| 27.04.2004 – 25.10.2004 | Lutsk, Ukraine | Lutsk National Technical University | senior lecturer | Teaching and scientific work |
| 26.10.2004 – to present | Lutsk, Ukraine | Lutsk National Technical University | associate professor | Teaching and scientific work |
| 20.10.2005 – 08.01.2021 | Lutsk, Ukraine | Lutsk National Technical University | dean of technological faculty | Organisation and control of educational process and scientific work |

| | | | | |
|----------------------------|--------------------|--|---------------------|--|
| 05.03.2009 – to present | Lutsk, Ukraine | Public Organisation «Volyn Association of Scientists and Innovators» | vice-head of board | Organisation and control of activity |
| 26.04.2011 – to present | Lutsk NTU, Ukraine | Delcam Training Centre of LNTU | Founder, Director | Training, research and application of advanced technologies in computer design and manufacturing of products based on AutoDesk (DELICAM Ltd) CAD/CAM software (UK) |
| 09.09.2014 – to present | Lutsk NTU, Ukraine | Interfaculty Technology & Product Design Lab of LNTU | Founder, Adviser | |
| 12.11.2015 – to present | Lutsk NTU, Ukraine | Energy-Efficiency Lab of LNTU | Founder, Adviser | Research, development and implementation of smart energy-efficient (green) technologies, new materials and installations of alternative energy, energy audit and energy-efficiency assessment of enterprises |
| 09.01.2021 – to 30.09.2022 | Lutsk NTU, Ukraine | Lutsk National Technical University | Vice-Rector for R&D | Organisation and control scientific work and research of university |
| 19.04.2022 – to present | Lutsk, Ukraine | NGO Growth Pole | Head of board | Organisation and control of activity |
| 01.10.2022 – to present | Lutsk NTU, Ukraine | SD&TB Innovation Park | Founder, Director | Development & implementation of innovative products, developments and technologies |

4. SCIENTIFIC AND INTERNATIONAL RESEARCH EXPERIENCE

- Author and coauthor is more than 100 scientific articles, 19 patents, 2 textbooks and 5 monographs, in particular joint international monograph: «Modern Tendencies in Higher Engineering Education: Experience of the European countries and Recommendations for Ukraine» / General edition by Sulaymon L. Eshkabilov. Editorial board: Lennart Johansson, Victor Kordas – «Driant», 2015.
- **Member of editorial and scientific committees of International and Ukrainian scientific professional journals:**
 - Annals of Emerging Technologies in Computing, AETiC (UK)
<http://aetic.theiaer.org/editors.htm>
 - The Journal of Entrepreneurship, Business and Economics, JEBE (Canada)
<http://scientificia.com/index.php/JEBE/about/editorialTeam>
 - Journal Machines MDPI (Switzerland). Special Issue: Design and Manufacture of Advanced Machines
https://www.mdpi.com/journal/machines/special_issues/advanced_machines (2022)
https://www.mdpi.com/journal/machines/special_issues/575706VYPH (2023)
 - *Perspective Technologies and Devices*
<https://eforum.lntu.edu.ua/index.php/jurnal>
 - Scientific Notes
https://eforum.lntu.edu.ua/index.php/naukovi_notatky
 - Advances in Mechanical Engineering and Transport
<https://eforum.lntu.edu.ua/index.php/jurnal-mbf/about>
 - International Journal of Engineering Innovations, IJEI (Portugal)
- **Member of scientific boards and committees of International conferences:**
 - Advanced Materials for Demanding Applications, **AMDA** (UK);
 - EAI International Conference on Smart Cities, **Mobility IoT** (Slovakia);
 - International Conference «Design, Simulation, Manufacturing: The Innovation Exchange, **DSMIE**;
 - EAI World Congress on Engineering and Technology; Innovation and its Sustainability, **WCETIS**;
 - Grabchenko's International Conference on Advanced Manufacturing Processes, **InterPartner**;
 - EAI International Conference on Management of Manufacturing Systems, **MMS** (Croatia);
 - International Conference on Emerging Technologies in Computing, **iCETiC**, (UK)
 - International Conference Innovation in Engineering, **ICiE** (Portugal)

- **Member of International Professional Associations and Societies:**
- International Association for Educators and Researchers IAER (UK), Member number #180420
<https://www.theiaer.org/>
 - European Alliance for Innovation (EAI)
<https://account.eai.eu/profiles/6993ec8a-3668-4bdc-ba57-3d0abef58ac9>
 - Coalition for Advancing Research Assessment, COARA
<https://coara.eu/coalition/membership/>
 - International Association for Technological Development and Innovations (iATDi)
<http://iatdi.org/#at-about>
 - Frantsevich Ukrainian Materials Research Society
<https://umrs.org.ua/society/society-participants>
 - NGO Volyn Association of Scientists and Innovators
<https://clarity-project.info/edr/36452569>
 - NGO Growth Pole
<https://sites.google.com/view/growth-pole/>

5. INTERNATIONAL INTERNSHIPS & GRANT PROJECTS EXPERIENCE

| Dates | Location | Company, Program & Project | Activity |
|--------------------------------|-------------------------|---|---|
| 1-26.08.2011 | Birmingham, UK | Delcam Plc, Delcam Software training | Delcam Software advanced training |
| 16.03.- 06.07.2013 | Rexhem, UK | Glyndwr University, UA Internship Program 2201250 | Internship within the Program 2201250 (MES Order №755 of 27.06.2012) |
| 2012-2015 | Stockholm, Sweden | KTH Royal Institute of Technology, TEMPUS Programme of EU, ENGITEC 530244-TEMPUS-1-2012-1-SE-TEMPUS-JPCR | Manager of the ENGITEC project «Modernizing higher engineering education in Georgia, Ukraine and Uzbekistan to meet the technology challenge» |
| 17-23.03.2013 12-15.06.2013 | Leeds, UK | University of Leeds, EU TEMPUS IV Programme, ENGITEC 530244-TEMPUS-1-2012-1-SE-TEMPUS-JPCR | Work and advanced training within the Tempus project ENGITEC «Modernizing higher engineering education in Georgia, Ukraine and Uzbekistan to meet the technology challenge» |
| 17-19.10.2013 | Kielce, Poland | Politechnika Świętokrzyska, INNO-TECH EXPO 2013 | Participation in exhibition INNO-TECH EXPO 2013 |
| 24-30.11.2013 | Tashkent, Uzbekistan | Tashkent Automotive Road Institute EU TEMPUS IV Programme, ENGITEC | Work and advanced training within the Tempus project ENGITEC |
| 9-13.12.2013 | Stockholm, Sweden | Royal Institute of Technology, KTH EU TEMPUS IV Programme, ENGITEC | Work and advanced training within the Tempus project ENGITEC |
| 8-12.12.2014 | Tbilisi, Georgia | Georgian Technical University EU TEMPUS IV Programme, ENGITEC | Work and advanced training within the Tempus project ENGITEC |
| 19.07- 02.08.2015 | Krakow, Poland | Politechnika Krakowska, EU TEMPUS IV Programme, MMATENG 543994-TEMPUS-1-2013-1-BE-TEMPUS-JPCR | Work and advanced training within the Tempus project MMATENG «Modernization of two cycles (MA, BA) of competence-based curricula in Material Engineering according to the best experience of Bologna Process» |
| 20-27.09.2015 | Batumi, Georgia | Shota Rustaveli State University EU TEMPUS IV Programme, ENGITEC | Work and advanced training within the Tempus project ENGITEC |
| 20-24.11.2016 | Freiburg, Germany | Fraunhofer-Institut für Solare Energiesysteme ISE, GIZ Green Economy Programme, PREMA | Advanced training and experience exchange within the PREMA project - «Profitable Resource Efficiency Management» |
| 25.09- 3.10.2017 | Germany | PREMA Project, GIZ Green Economy Programme | Work and advanced training within the PREMA project «Profitable Resource Efficiency Management» |
| 01.12.2017 – 04.12.2018 | Belarus-Ukraine | Eastern Partnership Territorial Cooperation Programme (EaPTC), Project 64/P1/1.3 - «Enhancing the competitiveness of graduates on labor markets of Ukraine and Belarus through establishment of cross-border regional network of university Centers of vocational and career guidance» | Work and advanced training within the project «Enhancing the competitiveness of graduates on labor markets of Ukraine and Belarus through establishment of cross-border regional network of university Centers of vocational and career guidance» |

| | | | |
|-------------------------|----------------------|--|---|
| 15.01.2020 – 14.01.2023 | Belgium | Katholieke Universiteit Leuven, Erasmus+: KA2 Capacity Building in the Field of Higher Education (CBHE), HEIN4.0 609939-EPP-1-2019-1-BE-EPPKA2-CBHE-JP | Work as Expert within the project HEIN4.0 - «Boosting the role of HEIs in the industrial transformation towards the Industry 4.0 paradigm in Georgia and Ukraine» 609939-EPP-1-2019-1-BE-EPPKA2-CBHE-JP |
| 07.06.2022 – 10.06.2022 | Porto, Portugal | Instituto Politecnico do Porto, HEIN4.0 609939-EPP-1-2019-1-BE-EPPKA2-CBHE-JP | Study visit to Instituto Politecnico do Porto – work and advanced training within the HEIN4.0 project |
| 2022 – 2024 | Thessaloniki, Greece | Aristotle University of Thessaloniki (coordinator), Greece https://eit-hei.eu/projects/accent/ European Institute of Innovation and Technology Program, AccEnt Project | Work and advanced trainings within the project «AccEnt» - Accelerating Innovation and Entrepreneurial Excellence in Higher Education Institutes |
| 2021 – 2025 | Brussels, Belgium | European Cooperation in Science and Technology, COST Action CA20126 https://www.cost.eu/actions/CA20126/ Network for research, innovation and product development on porous semiconductors and oxides (NETPORE) | Management Committee member from Ukraine, COST Action CA20126 Member of Work Groups WG1,3,4 within the COST CA20126 R&D project NETPORE |
| 2022 – 2026 | Brussels, Belgium | European Cooperation in Science and Technology, COST Action CA21121 https://www.cost.eu/actions/CA21121/ European Network for the Mechanics of Matter at the Nano-Scale (MecaNano) | Management Committee member from Ukraine, COST Action CA21121 Member of Work Groups WG1-3 within the COST CA21121 R&D project MecaNano |
| 2021 – 2025 | Brussels, Belgium | European Cooperation in Science and Technology, COST Action CA20101 https://www.cost.eu/actions/CA20101/ Plastics monitoring detection Remediation recovery (PRIORITY) | Management Committee member from Ukraine, COST Action CA20101 Member of Work Groups WG5,7 within the COST CA20101 R&D project PRIORITY |
| 2023 – 2027 | Brussels, Belgium | European Cooperation in Science and Technology, COST Action CA22123 https://www.cost.eu/actions/CA22123/ European Materials Acceleration Center for Energy (EU-MACE) | Work Group member from Ukraine, COST Action CA22123 Member of Work Groups WG1-5 within the COST CA22123 R&D project EU-MACE |
| 2023 – 2027 | Brussels, Belgium | European Cooperation in Science and Technology, COST Action CA22143 https://www.cost.eu/actions/CA22143/ European Materials Informatics Network (EuMINE) | Work Group member from Ukraine, COST Action CA22143 Member of Work Groups WG1-5 within the COST CA22143 R&D project EuMINE |

➤ **Preparation and Implementation Grant Projects within the different International Programs.**
Has experience in preparation and implementation international projects within the Framework of Neighbour-Hood Program PL-BY-UA INTERREG IIIA/ TACIS CBC:

- Consultant and participant of the project IPBU.03.01.00-06-386/11-00 «PL-NTU Cross-border exchange of experience» - Cross-Border Cooperation Programme PL-BY-UA (2013-2015);
- Expert of the project “Enhancing the competitiveness of graduates on labor markets of Ukraine and Belarus through establishment of cross-border regional network of university Centers of vocational and career guidance” - Eastern Partnership Territorial Cooperation Programme (EaPTC) Belarus-Ukraine (2017-2018).

Has over 10 years experience in preparation & implementation of international projects as consultant, expert and participant of the international projects, in particular:

Consultant, expert of international projects:

- «**La MANCHE**» Leading and Managing Change in Higher Education (2012-2015);
- «**MMATENG**» Modernization of two cycles (MA, BA) of competence-based curricula in Material Engineering according to the best experience of Bologna Process (2013-2016).

Manager of the TEMPUS project «ENGITEC» Modernizing higher engineering education in Georgia, Ukraine and Uzbekistan to meet the technology challenge (2012-2015).

Expert in the ERASMUS+KA2 project «HEIN4.0» Boosting the role of HEIs in the industrial transformation towards the Industry 4.0 paradigm in Georgia and Ukraine (2020-2023).

Management Committee (MC) member from Ukraine and Member of working groups (WG) of R&D projects within the European Cooperation in Science and Technology program (COST):

- 1) **COST Action CA20126** - Network for research, innovation and product development on porous semiconductors and oxides (**NETPORE**) 2021-2025 <https://www.cost.eu/actions/CA20126/>
- 2) **COST Action CA21121** - European Network for the Mechanics of Matter at the Nano-Scale (**MecaNano**) 2022-2026 <https://www.cost.eu/actions/CA21121/>
- 3) **COST Action CA20101** - Plastics monitoring detection Remediation recovery (**PRIORITY**) 2021-2025 <https://www.cost.eu/actions/CA20101/>
- 4) **COST Action CA22123** - European Materials Acceleration Center for Energy (**EU-MACE**) 2023-2027 <https://www.cost.eu/actions/CA22123/>
- 5) **COST Action CA22143** - European Materials Informatics Network (**EuMINE**) 2023-2027 <https://www.cost.eu/actions/CA22143/>

6. **LANGUAGE SKILLS: (5 - excellent; 1 - basic)**

| Language | Reading | Speaking | Writing |
|-----------|---------|----------|---------|
| Ukrainian | 5 | 5 | 5 |
| English | 4 | 4 | 4 |

7. **EXPERT ACTIVITY & OTHER RELEVANT INFORMATION**

Member of the Branch Expert Council of the National Agency for Quality Assurance of Higher Education (NAQA) in branch 13 Mechanical Engineering (2020-2021).

Member of the Specialized Scientific-Technical Council of the Ministry of Education and Science of Ukraine for the selection of scientific works, R&D and infrastructure projects, financed by the EU external assistance instrument for the fulfillment of Ukraine's obligations in the EU Scientific Research and Innovation Framework Program "Horizon 2020". (Order of MESU No.39 dated 01.20.2022)

Expert in the expertise of scientific research projects and scientific-technical (experimental) developments, which are submitted for participation in the Ministry of Education and Science of Ukraine competitions in the Materials Science area. (Order of MESU No.1111 from 12.12.2022)

Independent External Expert on the projects expertise within the framework of the European Union program COST - European Cooperation in Science & Technology (<https://www.cost.eu>)

RESEARCH INTERESTS: Development of Energy-Efficient Technologies for Creating New High-Performance Powder & Composite Eco-Materials. Industry 4.0/5.0, IoT&DS Technologies, Smart automation

TEACHING COURSES: Data Science Technologies, Databases & Knowledge Organization, Computer Design Technologies (IoT&DS), Big Data & Analytics, Internet of Things Technologies, Mathematical Modeling, Scientific Principles of Applied Mechanics

AWARDED: Honoured Diploma of Ministry of Education and Science of Ukraine (2006), Honoured Diploma of Volyn Regional State Administration (2009), Grant holder of Cabinet Ministers of Ukraine for young scientists (2008-2010), Honoured Diploma of Volyn Regional Council (2019), Honoured Diploma of Ministry of Education and Science of Ukraine (2022), Gratuities of the UK Company Delcam Ltd and AUTODESK.

ORCID ID: <https://orcid.org/0000-0002-9169-9173>

SCOPUS ID: <https://www.scopus.com/authid/detail.uri?authorId=56520138000>

WEB OF SCIENCE Researcher ID: <https://www.webofscience.com/wos/author/record/U-9960-2017>

GOOGLE SCHOLAR: https://scholar.google.com.ua/citations?user=z_TwSUAAAAJ

SciProfiles: <https://sciprofiles.com/profile/614441>

RESEARCHGATE: https://www.researchgate.net/profile/Oleg_Zabolotnyi

ACADEMIA: <https://lutsk-ntu.academia.edu/OlegZabolotnyi>

LinkedIn: <https://www.linkedin.com/in/olegzabolotnyi>

IEEE-Collabratec: <https://iee-collabratec.ieee.org/app/p/OlegZabolotnyi>

Web-Профіль Науковці України: <http://irbis-nbuv.gov.ua/ASUA/0104430>

Oleg Zabolotnyi

75 Lvivska street, 43018 Lutsk, Ukraine
Lutsk National Technical University

March, 2024

Tel.: +380505850276

E-mail: volynasi@gmail.com

o.zabolotnyi@lntu.edu.ua