


Personal information

First name(s) / Surname(s)

HANNA BARSUKOVA

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hanna.barsukova@snaau.edu.ua

Nationality

Ukrainian

Date of birth

02.03.1983

Gender

female

Current employment / Occupational field

Associate Professor of the Department of Energy and Electrical Engineering, Sumy National Agrarian University;
Ph.D., Associate Professor of the Department of Energy and Electrical Engineering, Engineering and Technology Faculty, Sumy National Agrarian University

Work experience

Dates

09.2022 till now

Occupation or position held

Associate Professor (09.2022 till now) at the Engineering and Technology Faculty

Main activities and responsibilities

Teaching and scientific activities in the sphere of energy and ecology in agriculture

Name and address of employer

Sumy National Agrarian University, 160 H. Kondratieva Str., Sumy, 40021, Ukraine

Type of business or sector

Higher Educational Institution (Agricultural Sector)

Dates

09.2020-08.2022

Occupation or position held

Senior Lecturer (09.2020-08.2022) at the Engineering and Technology Faculty

Main activities and responsibilities

Teaching and scientific activities in the sphere of energy and ecology in agriculture

Name and address of employer

Sumy National Agrarian University, 160 H. Kondratieva Str., Sumy, 40021, Ukraine

Type of business or sector

Higher Educational Institution (Agricultural Sector)

Dates

04.2018-08.2020

Occupation or position held

Assistant (04.2018-31.08.20) at the Engineering and Technology Faculty

Main activities and responsibilities

Teaching and scientific activities in the sphere of energy and ecology in agriculture

Name and address of employer

Sumy National Agrarian University, 160 H. Kondratieva Str., Sumy, 40021, Ukraine

Type of business or sector

Higher Educational Institution (Agricultural Sector)

	<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>08.2005 till now</p> <p>Junior Researcher (08.2005 – 12.2005); Head of Scientific Department of Complex Mineral Fertilizers (09.2017 – 12.2017) at the Scientific and Research institute of mineral fertilizers and pigments</p> <p>Scientific and research activities in the field of obtaining new types of mineral fertilizers</p> <p>Sumy Scientific and Research institute of mineral fertilizers and pigments, Sumy, 40012, Ukraine</p> <p>Scientific and Research institute (industrial sector)</p>																														
Education and training																																
	<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects/occupational skills covered</p> <p>Name and type of organisation providing education and training</p> <p>Level in national or international classification</p>	<p>09.2000-06.2005</p> <p>MSc in Ecology and Environmental Protection</p> <p>Protection of the environment</p> <p>Sumy State University, Ukraine</p> <p>Dipl. Ing. (University)</p>																														
	<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects/occupational skills covered</p> <p>Name and type of organisation providing education and training</p> <p>Level in national or international classification</p>	<p>07.2017</p> <p>Candidate of Technical Sciences</p> <p>Ecological safety</p> <p>Sumy State University, Ukraine</p> <p>PhD in Technical Sciences</p>																														
	<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects/occupational skills covered</p> <p>Name and type of organisation providing education and training</p> <p>Level in national or international classification</p>	<p>09.2019-12.2020</p> <p>MSc in Electrical energetics, electrical Engineering and Electromechanics</p> <p>Study of the influence of physical and chemical factors on the improvement of production processes in agriculture.</p> <p>Sumy National Agrarian University, Ukraine</p> <p>Dipl. Ing. (University)</p>																														
Personal skills and competences																																
	<p>Mother tongue(s)</p> <p>Other language(s)</p> <p>Self-assessment</p> <p>European level (*)</p> <p>English</p>	<p>Reliability, loyalty, sociability, energy, purposefulness</p> <p>Ukrainian</p> <p>English</p> <table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>B2</td><td>Upper-Intermediate</td> <td>B2</td><td>Upper-Intermediate</td> <td>B2</td><td>Upper-Intermediate</td> <td>B2</td><td>Upper-Intermediate</td> <td>B2</td><td>Upper-Intermediate</td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B2	Upper-Intermediate								
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B2	Upper-Intermediate	B2	Upper-Intermediate	B2	Upper-Intermediate	B2	Upper-Intermediate	B2	Upper-Intermediate																							
	<p>Social skills and competences</p> <p>Organisational skills and competences</p>	<p>I have experience working in a team within international educational and scientific projects.</p> <p>I was responsible for organizing scientific exhibitions.</p>																														

Computer skills and competences

Is fluent in computer. The competent with most programs.

Additional information:

Scientific Research Topic and Publications

1. Savchenko-Pererva M., O. Determination of heat losses in public premises with development of algorithm for implementation of the energy saving measures / M. Savchenko-Pererva, O. Radchuk, L. Rozhkova, H. Barsukova, O. Savoisky // Eastern-European Journal of Enterprise Technologies, 6 (4 (114)). Kharkiv. – 2021. – P. 48–59. <https://doi:10.15587/1729-4061.2021.245794>.
2. Yurchenko O. (2023) Determination of wind turbine blade model for regions with low wind speeds / O. Yurchenko, O. Radchuk, H. Barsukova, M. Savchenko-Pererva, O. Ivchenko, V. Kolodnenko, D. Fesenko // Eastern-European Journal of Enterprise Technologies, 2 (8 (122) Kharkiv. – 2023. – P. 44–52. <https://doi.org/10.15587/1729-4061.2023.277896>.
3. Lovska A. (2025) Determination of loading of an improved tank for railway transportation / A. Lovska, A. Muradyan, G. Barsukova, O. Yurchenko, O. Demydyukov // Eastern European Journal of Advanced Technologies, 1 (7 (133), 90–98. <https://doi.org/10.15587/1729-4061.2025.321858>.
4. Lovska, A., Stanovska, I., Pelypenko, Y., Barsukova, H., Yurchenko, O. (2025). Determining the strength of a frame in a railroad open wagon with slings in its structure to im-prove its operational energy efficiency. Eastern-European Journal of Enterprise Technologies, 5 (7 (137)), 40–47. <https://doi.org/10.15587/1729-4061.2025.340014>.
5. Yurchenko O. Development of a wind turbine blade for areas with low wind speed / O.. Yurchenko, H. Barsukova, H. Tymoshenko // Bulletin of the Sumy National Agrarian University, series "Mechanization and automation of production processes" - 2022. - Issue 2 (47). - P. 94–100.
6. Yurchenko O. The process of restoring a battery using an integrated approach / O. Yurchenko, H. Barsukova // Scientific Bulletin of the Tavria State Agrotechnological University: electronic scientific professional publication / TSATU; editor-in-chief Dr.Sc., prof. V. M. Kyurchev. - Melitopol: TSATU, 2023. - Issue 13 (1). - P. 390–401.
7. Yurchenko O. The use of pulsed electric field as a method of improving seed quality indicators / O. Yurchenko, H. Barsukova // Scientific Bulletin of the Tavria State Agrotechnological University: electronic scientific professional publication / TSATU; editor-in-chief Dr. of Engineering, Prof. V. M. Kyurchev. – Melitopol: TSATU, 2023. – Issue 13 (1). – P. 466–475.
8. Yurchenko O. Search for the location of damage to the winding of electrical equipment by changing the operating temperature / O. Yurchenko, H. Barsukova, A. Chepizhny, V. Zubko, H. Tymoshenko // Proceedings of the Tavria State Agrotechnological University named after Dmitry Motornyi. – Melitopol: TSATU, 2023. – Issue 23 (2). – P. 167–176.
9. Yurchenko, O., and Barsukova, H. (2024). Peculiarities of switching on electric motors for parallel operation in automation of processes in agriculture. Bulletin of the Sumy National Agrarian University. Series: Mechanization and Automation of Production Processes, (3 (57), 79-85. <https://doi.org/10.32782/msnau.2024.3.10>.
10. Yurchenko O. Functional Features of a Tool for Preparing Electric Current Conductors during Installation of Electrical Equipment and Repair of Electrical Devices / O.Yurchenko, H. Barsukova, M. Romanenko // Scientific Bulletin of the Tavria State Agrotechnological University named after Dmitry Motornyi. – Melitopol: TSATU, 2024. – Issue 14 (1). – P. 274–284. <http://dx.doi.org/10.32782/2220-8674-2024-24-1-23>.
11. Kozin V., Savoysky O., Barsukova H, Volvach T., Ryasna O., Marchenko A. (2025). Current status and promising directions of development of technologies for the production of solar panels. Proceedings of the Tavria State Agrotechnological University. – 2025. – Issue 25, Vol. 2. – P. 45-53. <https://repo.snau.edu.ua/xmlui/handle/123456789/14729>.
12. Yurchenko, O., Barsukova, H., Chepizhny, A., & Ivchenko, O. (2025). SOLAR POWER PLANTS ON PUBLIC ROADS AS A WAY TO IMPROVING ENVIRONMENTAL SAFETY. Bulletin of the Sumy National Agrarian University. Series: Mechanization and automation of production processes, (2), 75-80. <https://doi.org/10.32782/msnau.2025.2.12>.
13. Yurchenko, O., & Barsukova, H. (2025). SAFETY OF INSTALLATION WORKS DURING THE OPERATION OF CLASS III POWER TOOLS. Proceedings of the Tavria State Agrotechnological University, 26(3), 66-72. <https://doi.org/10.32782/2078-0877-2025-25-3-8>.

Patents:	<ol style="list-style-type: none"> Vertical-axis wind turbine: patent. No. 157027, U202301683. Ukraine. Registered in the State Register 04.09.2024. O. Yurchenko, H. Barsukova, H. Tymoshenko, A. Chepizhny, V. Kolodnenko. Training stand for the installation of electrical power equipment: patent. No. U202302877. Ukraine. Registered in the State Register 14.05.2025, bulletin No. 20/2025 – O. Yurchenko, H. Barsukova, H. Tymoshenko. Method for determining the heat balance of released thermal energy from CHP, boiler house, in central heating systems in closed and open water heating networks. No. 156904, application No. U202305100. Ukraine. Registered in the State Register on 08/21/2024. O. Ivchenko, H. Barsukova. Free-vortex pump. No. 156454, application No. U202304884. Ukraine. Registered in the State Register on 07/03/2024. O. Ivchenko, H. Barsukova. Centrifugal-inertial dust collector with louver plates. No. 158325. Application No. U202402038. Ukraine. Registered in the State Register on 01/22/2025, bulletin No. 4/2025. M. Savchenko-Pererva, O. Radchuk, H. Barsukova. Container with a floor made of sandwich panels. No. 159610. Application No. U202405205. Ukraine. Registered in the State Register on 18.06.2025, Bulletin No. 25/2025. S. Panchenko, A. Lovska, H. Barsukova.
Thesis:	Over 90 Thesis at international and national conferences, including abroad.
Methodological work: Manuals	<ol style="list-style-type: none"> On the issues of high-quality installation. From theory to practice: a guide / O. Yurchenko, H. Barsukova – Sumy: SNAU, 2025. – 203 p. O. Yurchenko, H. Barsukova, A. Chepizhny, H. Timoshenko // Installation of electrical equipment and control systems. Installation of electric motor control panels // Teaching manual for students 2, 1st year of the speciality: 'Electric Power Engineering, Electrical Engineering and Electromechanics' of the Faculty of Engineering and Technology, full-time and part-time forms of study, Bachelor's degree. – Sumy: SNAU, 2023. – 144 p.
Lecture notes, laboratory and practical classes	40 lecture notes, laboratory and practical classes, and independent student work in the disciplines «Energy Sources and the Environment», «Environmental Aspects of Rational Energy Use», «Energy and Environmental Fundamentals in the Conservation and Use of Renewable Energy Sources», «Energy Audit», «Energy and Environmental Fundamentals in the Provision and Use of Renewable Energy Sources», «Theory and Technology of Scientific Research».
Professional development/internship:	<ol style="list-style-type: none"> 4th International Conference on Sustainable Manufacturing, MateriaTechnically Sponsored by AIP Conference Proceedingsls and Technologies Coimbatore / Certificate C.No. ICSMMT/2022/CERT/058 «Academic Integrity» at the Higher Seminary of the Spiritual Association of the Catholic Apostolate from 27 June to 5 August 2022. «Sustainable and renewable energy. Essentials» with the support of the US Embassy in Ukraine is a joint project of NTU «KhPI» and the NGO 'Association of Young Scientists of NTU «KhPI» from 12 December 2022 to 9 February 2023. Theoretical training course «SPECIALIST IN EQUIPMENT FOR SOLAR POWER PLANTS» from 10 to 11 December 2024, under the auspices of the Sumy Region Regional Development Agency. International webinar «Renewable energy sources: key economic aspects of enterprise energy security», organised by HSWT (Germany) and SNAU (Ukraine) with the support of DAAD, held from 14 to 18 April 2025 (1.5 ECTS). Training Mobility under the Erasmus+ programme from 20/04/2025 to 01/05/2025, Ceska zemedelska univerzita v Praze, funded by the European Union (3.0 ECTS). Education project № 101085172 under the EU Erasmus+ Program 2025. Jean Monnet Module «Bioenergy innovations in waste management: European experience in implementing a circular economy», funded by the European Union. Held from 23 April to 20 June 2025 (2.0 ECTS). Within the framework of the DAAD Projekt 57808327 «German-Ukrainian Agricultural University Network 2025-2029». Participated in the workshop.
Other:	<p>Research work:</p> <ul style="list-style-type: none"> - State budget topic «Reducing the technogenic load on the environment of chemical, machine-building and thermal power enterprises», dedicated to the direction «Technology for the utilisation and disposal of domestic and industrial waste» (No. DR 0116U006606, Ministry of Education and Science of Ukraine). - Improving the energy efficiency of the solid fuel boiler room at Sumy National Agrarian University by providing biological fuel with elements of rational use of energy resources and improving the ecological condition of soils (competition of Ukrainian-Austrian research projects for 2023-2024). <p>Member of the public organisation «ECOCLUB» since 2 October 2023.</p> <p>Since 01.01.2025 – the secretary of the Academic Council of the Faculty of Engineering and Technology at Sumy National Agrarian University.</p>

Reviewer of the scientific publication «Eastern European Journal of Advanced Technologies», which is indexed in the scientific-metric database Scopus.

Member of the project group of the educational program «Electric Power Engineering, Electrical Engineering and Electromechanics» of the Bachelor's degree program, SNAU.

Garant of the educational program «Electric Power Engineering, Electrical Engineering and Electromechanics» of the Master's degree program, SNAU.

Exercising the powers of a member of the examination and professional commissions in the specialty 141 Electric Power Engineering, Electrical Engineering and Electromechanics at Sumy National Agrarian University

Experience in giving guest lectures, organizing scientific events and seminars.

Can be a qualified expert in the following specialties:

145 Renewable energy sources and hydropower;

101 Ecology and environmental protection;

183 Environmental protection technologies;

141 Electric power, electrical engineering and electromechanics.