

Partner search

01/12/2025

- **Relevant topic(s) in work programme (code & name of the topic(s) line(s))**

- Research infrastructures;
- Culture, Creativity and Inclusive Society;
- Civil Security for Society;
- Digital, Industry and Space;
- Climate, Energy and Mobility;
- Food, Bioeconomy, Natural Resources, Agriculture and Environment;
- European innovation ecosystems;
- Widening participation and spreading excellence, and reforming and enhancing the European R&I system

- **Description of the expertise proposed (up to 700 characters)**

Chernihiv Polytechnic National University is a multidisciplinary higher education institution with expertise across engineering, information technologies, natural sciences, and social and cultural studies. It hosts specialized departments and institutes in IT, electronics, automation, robotics, environmental sciences, agroforestry, ecology, and digital humanities. Its infrastructure includes research laboratories, innovation and business hubs, and centers for distance and hybrid learning, enabling the integration of digital technologies with sustainable development, cultural heritage preservation, and social innovation. University is a reliable partner for Horizon Europe projects focusing on digitalization, technological innovation, and cross-sectoral industrial collaboration.

- **Keywords describing the expertise proposed (up to 15 words)**

Information Technology, Electronics, Automation, Robotics, Environmental Sciences, Agroforestry, Sustainable Development, Digital Humanities, Cultural Heritage, Social Innovation, Distance Learning, Innovation Hubs, Technology Transfer, Multidisciplinary Research, Applied Research

- **Organisation information**

Organisation and country: Chernihiv Polytechnic National University, Ukraine

Short Name/Abbreviation: CPNU

PIC Number: 943142253

Type of the organisation:

☐ **Other:** Higher education institution

Former participation in FP European projects?

☐ **Yes**

www: <https://stu.cn.ua/en/>

Description of the organisation:

Chernihiv Polytechnic National University (CPNU) is a classic higher education institution established in 1960. It is the only in the region multiple-discipline educational and research centre with a system of continuous education including 2 Colleges, 5 Educational and Research Institutes, the Start-up Centre, the Centre of Postgraduate Education and Advanced Training, Business-Innovation Centre, postgraduate and doctoral studies.

The University's material and technical base comprises 16 academic and laboratory buildings, 6 hostels, cultural and educational centre, sports, recreation and entertainment complexes. There are more than 7000 students. The educational-scientific staff is 250.

The quality management system of the University educational activity is certified by ISO 9001: 2015. CPNU's mission is the development of society through education and research to build leadership and address the changing global challenges. The strategic aim of CPNU is to develop a model of a progressive university that integrates European values, the principles of sustainable development of society, the formation of advanced professional competencies of students.

CPNU has experience in implementation of EU-funded projects of different types & scale. Including within the EU Erasmus+ Program, and Digital Europe Program.

CPNU participated in the ERASMUS+ project *"Development of Practically-Oriented Student-Centred Education in the Field of Modelling of Cyber-Physical Systems"*. The project aimed to introduce new practice-oriented training programs in mathematical and simulation modeling of Cyber-Physical Systems for physical, mathematical, and engineering specializations. It envisaged close cooperation with professional associations, high-tech companies, and research institutions of Ukraine, taking into account the needs of the labor market.

Significant experience was also obtained within the Horizon 2020 research and innovation project *"SMARTGYsum – Smart and Green Energy Systems and Business Models"* (Marie Skłodowska-Curie grant agreement No. 955614). Within SMARTGYsum, the Department of Radio Engineering and Embedded Systems employed a junior research fellow, Mr. M. Azizi, who also enrolled in postgraduate studies at CPNU (specialty 141). His research focuses on *"Energy Router for Hybrid Microgrids for Efficient and Robust Energy and Power Management"*, which is also the topic of his dissertation. In addition, the department's staff developed a new course *"PCB Design Techniques for Power Electronic Devices to Ensure Reliability and Resilience"* (1 ECTS credit).

Another important initiative is the Erasmus+ project *"Bridging the Gap Between University and Industry: Master Curricula Supporting the Development of Green Jobs and Digital Skills in the Ukrainian Building Sector"*. The project aims to establish new Master's Programmes on BIM Technology in Construction and Civil Engineering in Ukrainian universities. It promotes the adoption of EU best practices in educational methodologies and specialized knowledge in energy efficiency and sustainable development of buildings and communities. The project is aligned with the UN 2030 Agenda, particularly SDGs 7, 10, and 11, as well as the priorities of the EU Green Deal and an economy that works for people.

Valuable expertise was also gained within the project *"Unlocking the Transformative Potential of Ukrainian Universities Towards Climate-Neutral and Sustainable Cities"*. Its general goal is to strengthen the role of Ukrainian universities as catalysts and accelerators of systemic change in cities towards sustainability, resilience, and climate neutrality through interdisciplinary, challenge-driven, and collaborative education, research, and innovation. Within this project, CPNU has been responsible for: designing and launching university-city collaboration centers; organizing the launch event to ensure visibility, attract local stakeholders, faculty, and students; developing sustainability plans for university-city collaboration centers; establishing inter-institutional collaboration to foster replication and scale-up; participating in two interdisciplinary summer schools *"Shaping Urban Environments for Tomorrow"*; developing and piloting an interdisciplinary MSc-level project-based course (7.5 ECTS) *"Smart Cities and Climate Adaptation and Mitigation Strategies"*.

The University is a partner in the Erasmus+ KA2 project PROMENT *"Promoting professional education and students engagement through comprehensive mentoring and tutoring system at HEIs"*. As part of this project, 12 mentoring and tutoring programs (which include involvement of external experts) have been developed and are being piloting. These are the following programs: Professional Mentoring, Business And Startup Mentoring, Mentoring For IDPs And Other Relocated Students, Green Deal Mentoring, Local Government-Led Mentoring, Young Teacher Mentoring, Digital Tutoring/Mentoring, First-Year Student Tutoring, Gender Mentoring, Internationalization Tutoring For Outgoing Students, Mentoring For Students With Disabilities, Buddy Tutoring – all these programs are open for University students and graduates.

Currently, CPNU is also a consortium member of the Digital Europe Programme project “*Win-Win European Digital Innovation Hub*” (*WIN2EDIH*). The mission of WIN2EDIH is to promote Deep Tech innovation for advancing digitalization and enhancing Ukraine’s competitiveness in the global digital space. Its vision focuses on supporting the digital transformation of SMEs, startups, and public administration for sustainable, secure, and inclusive economic development. Within the project, CPNU is responsible for the Skills Development track, which includes organizing and delivering group and individual professional trainings, certification programs, upskilling activities, and mentoring sessions for business representatives, startups, and public authorities.

The institutional capacity and expertise accumulated by CPNU through the implementation of these and other international projects will be strategically leveraged to ensure the effective realization, sustainability, and impact of the new project.

- **Contact details**

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