



Ministry of Science and Higher Education
Republic of Poland

Co-financed by the project of Minister of Science and Higher Education "Industry Contact Points for the Horizon Europe Research and Innovation Framework Programme"



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Technologies
and Health



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Industry 4.0

LOWER SILESIA



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WROCŁAW TECH FACULTY OF MEDICINE Clinical Neurosciences

Digital hospital

Please wait

Pitch focus



- Who we are: Wrocław Tech – Faculty of Medicine, Department of Clinical Neurosciences, led by Prof. Joanna Rymaszewska.
- Research profile: clinical psychiatry & neuroscience, brain health, cognitive deficits, depression/ADHD/OCD, dementia and consultation-liaison psychiatry, clinical psychology in hospital settings.
- Flagship work: BRAVES / BRAVES-Cog – multimodal cognitive assessment, neurobiomarkers, biomedical signals, AI and non-invasive brain stimulation.
- Dr Karolina Fila-Pawłowska: neuromodulation in psychiatry and clinical neuroscience (TMS, tDCS/tES, DBS), biomarker-based personalization and digital mental health.
- Collaboration aim: patient-centred, digital and implementation research in real hospital care.



Intro

Guidelines for participants

Organisation unit/name: Wrocław University of Science and Technology / Wrocław Tech

Faculty of Medicine – Department of Clinical Neurosciences

Organisation type: public technical university; academic medical faculty and research unit

Contact person: Anna Walter, MSc – psychologist / doctoral researcher

Institution website: pwr.edu.pl/en | wmed.pwr.edu.pl/en

Contact:

Anna.Walter@pwr.edu.pl

QR: Department of Clinical Neurosciences website



About the organization

- New interdisciplinary medical faculty embedded in a technical university.
- Medicine connects engineering, life sciences, social sciences and clinical hospitals.
- Department of Clinical Neurosciences: brain health, mental disorders, neuromodulation and psychosocial interventions.
- EU-facing experience: dementia / brain-health projects, H2020 MSCA networks and digital mental health research.
- Added value: clinical-facing environments, patient-centred methodology and implementation know-how.



Our research support asset



Our own R&D potential:

- Scientific and clinical expertise: Department of Clinical Neurosciences at Wrocław Tech – Faculty of Medicine, combining clinical neuroscience, psychiatry, psychology and biomedical research.
- Experienced academic staff: researchers with expertise in cognitive assessment, mental health, neuromodulation, neuropsychology, patient-reported outcomes and implementation research.
- Research infrastructure and methodological know-how: capacity to design and conduct quantitative, qualitative and mixed-methods studies, including ethics documentation, study protocols, data collection tools and clinical research procedures.
- Clinical and hospital-based research environment: access to real-world healthcare settings, including maternity care, paediatrics, internal medicine, geriatrics and patient–staff communication contexts.
- Interdisciplinary university ecosystem: collaboration potential with engineering, biomedical technologies, digital health, AI, data science and medical technology teams within Wrocław Tech.
- Potential for new IP and implementation: development and validation of screening tools, digital health solutions, psychological micro-interventions, staff training models and patient-centred care pathways.

Priority research areas: perinatal mental health, cognitive functioning, depression and anxiety screening, neuromodulation, paediatric chronic illness / obesity, older adults and communication in hospital care.



Calls of interest



Horizon Europe – Cluster 1: Health

- **HORIZON-HLTH-2027-01-DISEASE-10**

Prevention and management of chronic non-communicable diseases in children and young people (GACD).

Fit for us: paediatric chronic illness, obesity, family-centred care, caregiver support, behavioural interventions, psychological assessment and implementation research in real-world clinical settings.

- **HORIZON-HLTH-2027-02-TOOL-01-two-stage**

Development of predictive biomarkers of disease progression and treatment response by using AI methodologies for chronic non-communicable diseases.

Fit for us: cognitive and psychological assessment, behavioural and digital biomarkers, patient-reported outcomes, real-world clinical data and validation of AI-based tools.

- **HORIZON-HLTH-2027-02-DISEASE-14-two-stage**

Clinical trials for advancing innovative interventions for neurodegenerative diseases.

Fit for us: clinical neuroscience, cognitive outcomes, neuromodulation, neuropsychological assessment, patient-centred trial design and collaboration with brain health research partners.



Calls of interest



Horizon Europe – Cluster 4: Digital, Industry and Space

- **HORIZON-CL4-2027-04-DIGITAL-EMERGING-04**

Apply AI: Challenge-Driven AI Innovation Booster in Apply AI prioritised sectors.

Fit for us: healthcare AI use cases, clinical decision support, cognitive screening, mental health applications and validation of AI tools in clinical environments.

- **HORIZON-CL4-2027-04-DATA-03**

New approaches for decentralized, federated and sustainable AI data processing.

Fit for us: privacy-preserving use of sensitive hospital and clinical data, federated learning, multicentre validation and secure AI models for healthcare.

Optional psychology-focused 2026 call, if non-2027 calls may be included:

- **HORIZON-HLTH-2026-01-DISEASE-02**

Innovative interventions to prevent the harmful effects of using digital technologies on the mental health of children and young adults.

Fit for us: clinical psychology, child and adolescent mental health, digital-related distress, screening, psychoeducation, family support and low-burden psychological interventions.



Project idea / expertise offer / collaboration



Our experience in R&D and international projects

- Department of Clinical Neurosciences combines psychiatry, clinical psychology, neurology, neuromodulation and biomedical engineering.
- Previous and ongoing projects: BRAVES-COG, ETUDE / H2020 MSCA-ITN, JPND dementia-related projects, COST Action EDEM and MEDWET mental health study.
- Expertise in brain health, cognitive assessment, dementia, mental disorders, psychosocial interventions, TMS/tDCS/DBS neuromodulation and biomarker-based personalised care.
- Clinical and implementation experience: hospital-based psychology, patient-reported outcomes, staff training, ethics documentation and real-world clinical research pathways.
- Collaboration potential: Wrocław Tech engineering, AI, biomedical technologies, HealthTech Synergy Hub, partner hospitals and industry-oriented R&D ecosystem. Looking for: EU partners in digital health, AI-supported clinical decision-making, mental health, paediatrics, ageing, neuromodulation and patient-centred hospital care.





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Thank you

**Let's connect:
clinical neuroscience, mental health
and digital implementation
in real hospital care**

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