

THE LIST OF APPLICATIONS DECLARED AS ELIGIBLE FOR FUNDING IN THE COMPETITION BEYOND POB

No.	Applicant (title/degree name and surname)	Faculty	Project title	Project grant
1.	Katarzyna Affek, Ph.D.	Faculty of Building Services, Hydro and Environmental Engineering	Endocrine disruption, adverse effects of by-products and inactivation of pathogens during disinfection of treated wastewater	PLN 199 763
2.	Anna Bogdan, Ph.D.	Faculty of Building Services, Hydro and Environmental Engineering	Prevention of patients' unintentional perioperative hypothermia	PLN 199 750
3.	Nina Dosekocz, Ph.D.	Faculty of Building Services, Hydro and Environmental Engineering	The effect of the aluminum oxide nanoparticles to the biological wastewater treatment process	PLN 198 122
4.	Anna Fijałkowska, Ph.D.	Faculty of Geodesy and Cartography	An innovative approach to determining the city life quality indicators using geospatial technologies (INnovaCITY)	PLN 191 590
5.	Cezary Galiński, Prof. Ph.D	Faculty of Power and Aeronautical Engineering	Initial investigation of an aeronautical hybrid propulsion system	PLN 199 997

6.	Magdalena Jasińska, Ph.D.	Faculty of Chemical and Process Engineering	Closure problem for complex chemical reactions in the turbulent flow regime	PLN 198 405
7.	Andrzej Kochan, Ph.D.	Faculty of Transport	Digital Railway. Digital twin of the ETCS application – virtual prototyping and simulation of operational scenarios	PLN 200 000
8.	Przemysław Korpas, Ph.D.	Faculty of Electronics and Information Technology	Chemical reactor vessel using intelligent microwave source	PLN 199 525
9.	Krzysztof Koszewski, Ph.D.	Faculty of Architecture	Platform for Edge computing in Geoinformation And Spatial data using IoT Sensors (PEGAS) as a determinant of universal design in smart cities	PLN 199 525
10.	Edyta Ładyżyńska-Kozdraś, Ph.D.	Faculty of Mechatronics	Analytical and numerical studies of the process of take-off and landing unmanned aerial vehicle launchers utilizing the phenomenon of magnetic levitation	PLN 171 925
11.	Piotr Manczarski, Ph.D.	Faculty of Building Services, Hydro and Environmental Engineering	Introducing a decision model for the optimal path of bio-waste management from highly urbanized areas, based on the of prospective technology analysis technique	PLN 194 475
12.	Andrzej Marciniak, Ph.D.	Faculty of Civil Engineering, Mechanics and Petrochemistry	Ionic liquids as alternative solvents in the process of butadiene extraction from C4 fraction	PLN 200 000

13.	Jakub Markiewicz, Ph.D.	Faculty of Geodesy and Cartography	The new approach of the Structure-form-Motion for TLS and MVS point clouds registration	PLN 195 500
14.	Adam Muszyński, Ph.D.	Faculty of Building Services, Hydro and Environmental Engineering	Assessment of the impact of pretreatment of substrates by hydrodynamic disintegration on the structure of microbial communities involved in the anaerobic digestion in wastewater treatment plants and agricultural biogas plants	PLN 199 899
15.	Dariusz Plewczyński, Prof. Ph.D	Faculty of Mathematics and Information Science	BEYOND GWAS: tensor representation of context-specific regulatory variants for complex diseases and traits	PLN 199 180
16.	Dominik Próchniewicz, Ph.D.	Faculty of Geodesy and Cartography	The study of the robustness of GNSS positioning against signal disturbances	PLN 190 900
17.	Paweł Pyrzanowski, Prof. Ph.D	Faculty of Power and Aeronautical Engineering	Investigation of dynamic properties of a bicycle gantry drive	PLN 138 000
18.	Marcin Rajner, Ph.D.	Faculty of Geodesy and Cartography	Determination of the impact of changes in the level of the Baltic Sea on earth's crust deformation and gravity changes	PLN 86 250
19.	Michał Sobieraj, Ph.D.	Faculty of Building Services, Hydro and Environmental Engineering	Investigation of cryogenic biogas upgrading using innovative two-stage autocascade refrigeration cycle working with natural refrigerants	PLN 180 000

20.	Adam Styk, Ph.D.	Faculty of Mechatronics	Development of a Digital Image Correlation method with spatially distributed fields of view for composite wind turbine blades structural dynamics identification	PLN 195 300
21.	Kinga Węzka, M.Sc.	Faculty of Geodesy and Cartography	The investigation of new Galileo signals applicability to increase the safety of navigation systems	PLN 194 570