ANNEX III

UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME IN ENGINEERING 2024

List of fields of research/Projects as determined by the Polish authorities.

Project No.	FIELD OF RESEARCH/PROJECT T

05	Synthesis of the adsorptive nanocomposite materials. (1)	not more than 32 years of age	B.Sc. degree in chemistry, materials science, environmental engineering, environmental sciences, or related scientific disciplines (5) Candidates should have a general knowledge of chemistry, material science and laboratory work. Additional materials engineering, geochemistry, and mineralogy knowledge will be a great asset. Scientific and technical reading and writing in English and experience with basic laboratory equipment will be required.

19	Research and application of selected sorption materials used in harmful gas absorbers. (1)	not more than 32 years of age	B.Sc. degree in chemistry sciences or material sciences (close to sorbents) or environmental sciences with good chemical background, possibly physics with specialization related to the previously mentioned sciences. (19) Candidates should have a general knowledge in chemical laboratory works + operation of measuring devices + instrumental analysis. Scientific and technical reading and writing in English and basic experience with carrying out experiments, collecting and summarizing collected data.
20	Transfer and adsorption of micropollutants on the surface of microplastics. (1)	not more than 32 years of age	B.Sc. degree in environmental and/or chemical engineering and/or chemistry, and/or environmental chemistry (20) Candidates should have a general knowledge in environmental and/or chemical engineering and/or chemistry, and/or environmental chemistry. Scientific and technical reading and writing in English and experience with environmental and/or chemical engineering and/or chemistry, and/or environmental chemistry.
21	Multi-objective optimization of energy system with share of VRES. (3)	not more than 32 years of age	B.SC. degree in mechanical engineering, environmental engineering but also other energy-related

26	Automated transportation technology systems and devices (2)	not more than 32 years of age	B.Sc. degree (26) Candidates should have a general knowledge in computer programs, have a general knowledge related to transportation problems, including automation, availability, safety, and reliability problems. Scientific and technical reading and writing in English and experience with transportation technology systems and devices, automation, availability, safety, and reliability.
27	Cyber-physical systems (2)	not more than 32 years of age	B.Sc. degree (27) Candidates should have a general knowledge in computer programs, have a general knowledge related to cyber-physical systems, twin systems, transportation problems, including safety and reliability problems. Scientific and technical reading and writing in English and experience with cyber-physical systems, twin systems, safety, and reliability.
28	Decision-making processes in engineering (2)	not more than 32 years of age	