

UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2017

List of Invited Member States per region and field of research as determined by the Polish authorities

Project No.	FIELD OF RESEARCH/PROJECT TITLE (Number of Fellowships)	INVITED MEMBER STATES PER REGION	LIMIT OF AGE	ACADEMIC REQUIREMENT
01	Decision Engineering (2) Problem base engineering	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc. or M.Sc. degree Be able to use MS Office and drawing programs; a general knowledge related to engineering problems.
02	Automation in Mining Devices (4) Mining devices automation	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc. or M.Sc. degree in Eng. Principle knowledge about automation in mining devices.
03	Mining devices (4) Selected problems in operation of mining devices	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc. or M.Sc. degree in Eng. Principle knowledge about mining devices.
04	Transport Engineering (4) Availability problems in transportation systems and devices (2)	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc. or M.Sc. degree (04) Be able to write computer programs, for example, be familiar with CAD/CAM/CAE; A general knowledge related to transportation programmes, including safety and reliability problems mechatronics.
05	Transport System Telematics (2)			(05) Candidates should have degree in mechanical/ transport engineering/ automation; be familiar transport telematics; be able to analyse reliability, maintain ability and availability of machine maintenance as well as modelling.
06	Manufacturing Transport Engineering (2) Transportation technology system and devices.	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc. or M.Sc. degree Be able to write computer programs (be familiar with CAD/CAM/CAE), have a general knowledge related to transportation programmes, including safety and reliability problems.
07	Drilling Engineering (2) Drilling and hydraulic fracturing	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc. or M.Sc. degree in Eng. Principle knowledge in engineering preferably in petroleum, earth engineering, physics, mathematics or computer sciences. Be able to solve problems using mathematical methods.
08	Sociology/ Economic Sociology and Economics (1) Interrelations between new technologies and social, economic life in globalizing world.	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc. or M.Sc. degree in humanities or social sciences or economy General knowledge in world economics
09	Sociology/ Humanities, Political Sciences; Sociology (1) Social and Political Dimensions of the Cyberspace.	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc. or M.Sc. degree in humanities or social sciences or economy General knowledge in Internet: Social Media.
10	Foundry Engineering/ Polymers in foundry engineering Aluminosilicate in green sands system, moulding and green sands (1) Analysis of selected properties of the polysaccharide - aluminosilicate binder in sand grains	Asia and the Pacific, Latin America and the Caribbean	no more than 25 years of age	B.Sc. or M.Sc. degree in foundry or metallurgical engineering, materials engineering. General knowledge in chemistry of polymers and aluminosilicate, materials engineering, foundry engineering
11	Foundry Engineering/ Continous casting of steel, solidification, modelling of generation process of non-metallic inclusion (2) Modelling of the generation process of non-metallic inclusion in CCS	Asia and the Pacific, Latin America and the Caribbean	no more than 30 years of age	B.Sc. or M.Sc. degree studies in computer science, specialty programming. General knowledge in programming for and automated systems0 Programming languages: Delphi, HTML; Programming tools: Microsoft Visual C++'C.

Project No.	FIELD OF RESEARCH/PROJECT TITLE (number of fellowships)	INVITED MEMBER STATES PER REGION	LIMIT OF AGE	ACADEMIC REQUIREMENT
12	Programming Languages/ Delphi, HTML; Programming tools: Microsoft Visual C++, metallurgy, steelmaking process (2) <small>Modeling of the removal of non-metallic inclusions to slag.</small>	Asia and the Pacific, Latin America and the Caribbean	no more than 32 years of age	B.Sc. or M.Sc. degree studies in computer science, specialty programming. <small>General knowledge in programming for and automated systems. Programming languages: Delphi, HTML; Programming tools: Microsoft Visual C++.</small>
13	Ceramics Composites/ Ceramics matrix Composites (1) <small>Refractory Metal Silicides for Ceramic-Ceramic Joining.</small>	Asia and the Pacific	no more than 35 years of age	B.Sc. or M.Sc. degree <small>General knowledge in material science and/or physics.</small>
14	Geology/ Mineralogy, Geochemistry (6) <small>Tungsten deposit in Rwanda (1)</small>	Africa	no more than 40 years of age	B.Sc. or M.Sc. degree in materials science or chemistry. <small>General knowledge in geology, mineralogy, geochemistry, mineral deposit</small>
15	<small>Stratiform copper deposit in Iran (1)</small>	Asia and the Pacific	no more than 35 years of age	B.Sc. or M.Sc. degree in materials science or chemistry. <small>General knowledge in geology, mineralogy, geochemistry, mineral deposit</small>
19	<small>REE deposit in Viet Nam (1)</small>	Asia and the Pacific	no more than 35 years of age	(same as above)
20	<small>Tin deposit in Central Africa (1)</small>	Africa	no more than 35 years of age	(same as above)
21	<small>Chromite deposit in Viet Nam (1)</small>	Asia and the Pacific	no more than 35 years of age	(same as above)
22	<small>Pb-Zn deposit in Viet Nam (1)</small>	Asia and the Pacific	no more than 40 years of age	(same as above)
16	Geology (3) <small>Epithermal base to precious metal mineralization In the Iranian Orogenic Belts (1)</small>	Asia and the Pacific	no more than 35 years of age	B.Sc. or M.Sc. degree. <small>General knowledge in Iranian Geology and ore deposits; be familiar with EMPA and EDX analyses; student of economic geology; general knowledge on volcanic connected ore deposits; available to read and speak Farsi; Own samples for studying are REQUIRED.</small>
17	<small>PB-Zn deposit in Iran: Geological, Mineralogy and Geochemical characteristics (1)</small>	Asia and the Pacific	no more than 35 years of age	(same as above)
18	<small>Genetic type of nickel deposits in Iran. Mineralogy and Geochemical characteristics (1)</small>	Asia and the Pacific and Arab States	no more than 35 years of age	(same as above)

Project No.	FIELD OF RESEARCH/PROJECT TITLE (number of fellowships)	INVITED MEMBER STATES PER REGION	LIMIT OF AGE	ACADEMIC REQUIREMENT
23	Computer Vision (2) Online Footstep Planning and navigation on Uneven Terrain for Humanoid Robot (1)	Asia and the Pacific	no more than 26 years of age	B.Sc. or M.Sc. Very good background in Mathematics General knowledge in digital signal processing robotics, and/or computer vision, and/or machine learning. Preference will be for students with good knowledge in both: in computer science and mechatronics. Good programming skills in Matlab, Python and C++ are required. Good knowledge of V-REP robot simulator is required.
24	3D Hand Pose Estimation. (1)	Latin America and the Caribbean	no more than 26 years of age	General knowledge in digital signal processing, and/or computer vision, and/or machine learning. Preference will be for students with good knowledge in electronics. Good programming skills in C++, Python, Matlab are required.
25	Geotourism (2)	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 30 years of age	B.Sc. or M.Sc. degree in geology, geography and/ or tourism.
26	Gas and Oil Engineering (7) Nodal analysis for unconventional tight gas reservoirs (2)	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc. or M.Sc. degree in petroleum engineering, geoscience, gas engineering or mechanical engineering.
27	Optimization of the gas-condensate reservoir exploitation in the recovery of ethane and LPG (2)			
28	Reservoir fluid recombination in conventional and unconventional gas-condensate wells (2)			
29	Design of compressed air energy storages in salt caverns (1)			
30	Gas Engineering (2) Selected geological objects and their geotouristics values.	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc. or M.Sc. degree in petroleum engineering, geoscience, gas engineering or mechanical engineering.
31	Ceramic and Material Engineering/material engineering education (2) Advanced Ceramic Materials.	Africa, Asia and the Pacific	no more than 40 years of age	B.Sc. or M.Sc. General knowledge in ceramic engineering.
	Total positions: 50			

Please refer to the list of invited Member States entitled to submit applications hereunder:

List of Invited Member States (122)

AFRICA

(46 Member States)

- Angola
- Benin
- Botswana
- Burkina Faso
- Burundi
- Cameroon
- Cape Verde
- Central African Republic
- Chad
- Comoros
- Congo
- Côte d'Ivoire
- Democratic Republic of the Congo
- Djibouti
- Equatorial Guinea
- Eritrea
- Ethiopia
- Gabon
- Gambia
- Ghana
- Guinea
- Guinea-Bissau
- Kenya
- Lesotho
- Liberia
- Madagascar
- Malawi
- Mali
- Mauritius
- Mozambique
- Namibia
- Niger
- Nigeria
- Rwanda
- Sao Tome and Principe
- Senegal
- Seychelles
- Sierra Leone
- Somalia
- South Africa
- Swaziland
- Togo
- Uganda
- United Republic of Tanzania
- Zambia
- Zimbabwe

ARAB STATES

(2 Member States)

- Iraq
- Syrian Arab Republic(the)

ASIA AND THE PACIFIC

(35 Member States)

- Afghanistan
- Bangladesh
- Bhutan
- Brunei Darussalam
- Cambodia
- China
- Fiji
- India
- Indonesia
- Kazakhstan
- Kiribati
- Kyrgyzstan
- Lao People's Democratic Republic
- Malaysia
- Maldives
- Mongolia
- Myanmar
- Nauru
- Nepal
- Niue
- Pakistan
- Palau
- Papua New Guinea
- Philippines
- Samoa
- Sri Lanka
- Tajikistan
- Thailand
- Timor-Leste
- Tonga
- Turkmenistan
- Tuvalu
- Uzbekistan
- Vanuatu
- Viet Nam

EUROPE

(8 Member States)

- Armenia,
- Azerbaijan,
- Bosnia and Herzegovina
- Croatia
- Georgia,
- Republic of Moldova
- Turkey
- Ukraine

LATIN AMERICA AND THE CARIBBEAN

(31 Member States)

- Argentina
- Barbados
- Belize
- Bolivia (Plurinational State of)
- Brazil
- Chile
- Colombia
- Costa Rica
- Cuba
- Dominica
- Dominican Republic
- Ecuador
- El Salvador
- Grenada
- Guatemala
- Guyana
- Haiti
- Honduras
- Jamaica
- Mexico
- Nicaragua
- Panama
- Paraguay
- Peru
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and the Grenadines
- Suriname
- Trinidad and Tobago
- Uruguay
- Venezuela (Bolivarian Republic of)