

## UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2013

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
1	<b>Automation, Transport Engineering, mechatronics, mechanical. (2)</b> Transportation system telematics	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
2	<b>Decision Engineering. (2)</b> Problem base engineering	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
3	<b>Drilling. (2)</b> Analysis of Hydraulic Fracturing Process.	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 45 years of age	B.Sc or M.Sc degree
4	<b>Drilling. (2)</b> Drilling and Hydraulic Fracturing Simulation	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 45 years of age	B.Sc or M.Sc degree
5	<b>Economic Sociology (1)</b> Interrelations between new technologies and social and economic life in globalizing world	Asia and the Pacific, Africa, Arab State, Europe, Latin America and the Caribbean	no more than 45 years of age	MA degree in humanities or social sciences or economics
6	<b>Engineering Technology, Transport Engineering, mechatronics (2)</b> Availability problems in transportation systems and devices	Asia and the Pacific, Africa, Arab State, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
7	<b>Environmental Protection Engineering and Biotechnology (2)</b> Laser Biotechnology as Innovative Method of Adaptation of Selected Plants to Common Pollutants of the Natural Environment as New Tool for Creation Green Jobs	Asia and the Pacific, Africa, Arab State	no more than 39 years of age	B.Sc or M.Sc degree
8	<b>Geoengineering (2)</b> Drilling Parameters Influence on Injection Performance	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 45 years of age	B.Sc or M.Sc degree
9	<b>Geology and Mining (1)</b> Optimising Borehole Heat Exchangers Systems	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 30 years of age	B.Sc or M.Sc degree
10	<b>Geotourism (2)</b> Assessment of geotouristic values of selected geological objects	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
11	<b>Materials science and ceramics (1)</b> Nanolaminate materials in Ti-Al-C-N system obtained by SHS method.	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean.	no more than 35 years of age	B.Sc or M.Sc degree
12	<b>Ceramic, material engineering, glazes (1)</b> Influence of some additives on basic parameters of sanitary body or glazes	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc or M.Sc degree
13	<b>Mechanical Engineering (1)</b> Rope based transport operation	Latin America and the Caribbean	no more than 45 years of age	B.Sc or M.Sc degree

Project No.	FIELD OF RESEARCH/PROJECT TITLE (number of fellowships)	INVITED MEMBER STATES PER REGION	LIMIT OF AGE	ACADEMIC REQUIREMENT
14	<b>Mechanics, Theory of Machines and Mechanisms, Robotics (1)</b> Development of control system parallel manipulator based of Assur group of high class.	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc or M.Sc degree
15	<b>Mining and Geoengineering (2)</b> Mining and Geology, Environmental Engineering	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
16	<b>Petrophysics &amp; well logging &amp; reservoir geophysics (1)</b> Reservoir geophysics-combining well log data and laboratory data	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc or M.Sc degree
17	<b>Reservoir engineering of unconventional resources (2)</b> Optimization of multistage fracking process in horizontal gas wells in tight and shale reservoirs.	(Armenia, Azerbaijan, Brunei Darussalam, Georgia, Ghana, Kazakhstan, Malaysia Philippines, Ukraine, Uzbekistan )	no more than 40 years of age	B.Sc or M.Sc degree
18	<b>Software Engineering (2)</b> Smart methodologies for development of software for embedded systems	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
19	<b>Technical physics (1)</b> Axis Switching impact o the selected physical properties of magnetite exhibiting first and second order Verwey transition	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
20	<b>Transport Engineering transportation, mechanical engineering, automation, transport and logistic (2)</b> Transportation technology systems and devices	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree
	<b>Total fellowships: 32</b>			

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

## UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2013

With a view to promoting human resource capacities in the developing countries and to enhancing international understanding and friendship among nations and the people of Poland, the Polish National Commission for UNESCO and the UNESCO Chair for Science, Technology and Engineering at the AGH University of Science and Technology in Krakow are placing at the disposal of UNESCO **thirty-two (32)** fellowships of **six (6)** months duration starting on 1<sup>st</sup> October 2013 for the benefit of Member States listed in Annex I. Beneficiaries of these fellowships will be given the opportunity to undertake an individual research programme in the field of **Science, Technology and Engineering**.

Details regarding the fellowships offered and the criteria of selection are listed below. The Polish authorities will make the final decision.

### A. FIELD OF RESEARCH

Fields of research proposed under the UNESCO/Poland Co-Sponsored Fellowships Programme 2013 by the Polish National Commission for UNESCO and AGH University of Science and Technology, are listed as follows (see Annex III):

1. **Field of research: Automation, Transport Engineering, mechatronics, mechanical.** Project no: **01**. Project title: *Transportation system telematics*.  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 2. (limit of age: no more than 40 years old)
2. **Field of research: Decision Engineering.** Project no: **02**. Project title: *Problem base engineering*.  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 2. (limit of age: no more than 40 years old)
3. **Field of research: Drilling.** Project no: **03**. Project title: *Analysis of Hydraulic Fracturing Process*.  
Countries: Africa, Arab States, Asia and Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 2. (limit of age: no more than 45 years old)
4. **Field of research: Drilling.** Project no: **04**. Project title: *Drilling and Hydraulic Fracturing Simulation*.  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 2 (limit of age: no more than 45 years old)
5. **Field of research: Economic Sociology.** Project no: **05**. Project title: *Interrelations between new technologies and social and economic life in globalizing world*.  
Countries: Africa, Arab States, Asia and the Pacific, Europe, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than 45 years old)
6. **Field of research: Engineering Technology, Transport Engineering, mechatronics** Project no: **06**. Project title: *Availability problems in transportation systems and devices*.  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 2 (limit of age: no more than 40 years old)
7. **Field of research: Environmental Protection Engineering and Biotechnology.** Project no: **07**. Project title: *Laser. Biotechnology as Innovative Method of Adaptation of Selected Plans to Common Pollutants of the Natural Environment as New Tool for Creation Green Jobs*.  
Countries: Asia and the Pacific, Africa, Arab States.  
Number UNESCO fellowships: 2 (limit of age: no more than 39 years old)
8. **Field of research: Geoengineering.** Project no: **08**. Project title: *Drilling Parameters Influence on Injection Performance*.  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 2 (limit of age: no more than 45 years old)
9. **Field of research: Geology and Mining.** Project no: **09**. Project title: *Optimising Borehole Heat Exchangers Systems*.  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 1 (limit of age: no more than 30 years old)

10. **Field of research: Geotourism.** Project no: 10. Project title: *Assessment of geotouristic values of selected geological objects.*  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 2 (limit of age: no more than 40 years old)
11. **Field of research: Materials science and ceramics.** Project no: 11. Project title: *Nanolaminate materials in Ti-Al-C-N system obtained by SHS method.*  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 1 (limit of age: no more than 35 years old)
12. **Field of research: Ceramic, material engineering, glazes** no: 12. Project title: *Influence of some additives on basic parameters of sanitary body or glazes.*  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than 35 years old)
13. **Field of research: Mechanical Engineering.** Project no: 13. Project title: *Rope based transport operation.*  
Countries: Latin America and the Caribbean  
Number UNESCO fellowships: 1 (limit of age: no more than 45 years old)
14. **Field of research: Mechanics, Theory of Machines and Mechanisms, Robotics.** Project no: 14. Project title: *Development of control system parallel manipulator based of Assur group of high class*  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than 35 years old)
15. **Field of research: Mining and Geoengineering.** Project no: 15. Project title: *Mining and Geology, Environmental Engineering* (limit of age: no more than 40 years old)  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 2.
16. **Field of research: Petrophysics & well logging & reservoir geophysics.** Project no: 16. Project title: *Reservoir geophysics-combining well log data and laboratory data.*  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than 35 years old)
17. **Field of research: Reservoir engineering of unconventional resources.** Project no: 17. Project title: *Optimization of multistage fracking process in horizontal gas wells in tight and shale reservoirs.*  
Countries: Armenia, Azerbaijan, Brunei Darussalam, Georgia, Ghana, Kazakhstan, Malaysia, Philippines, Ukraine, Uzbekistan.  
Number UNESCO fellowships: 2 (limit of age: no more than 40 years old)
18. **Field of research: Software Engineering.** Project no: 18. Project title: *Smart methodologies for development of software for embedded systems.* (limit of age: no more than 40 years old)  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 2 (limit of age: no more than 40 years old)
19. **Field of research: Technical physics.** Project no: 19. Project title: *Axis Switching impact o the selected physical properties of magnetite exhibiting first and second order Verwey transition.* Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than ?? years old)
20. **Field of research: Transport Engineering transportation, mechanical engineering, automation, transport and logistic.** Project no: 20. Project title: *Transportation technology systems and devices.*  
Countries: Africa, Arab States, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 2 (limit of age: no more than 40 years old)

## B. QUALIFICATIONS REQUIRED

The required qualifications for each field of research (project) are as per the attached annexes to this letter of announcement (see Annex III).

## C. FACILITIES OFFERED BY THE POLISH AUTHORITIES

- (i) Free tuition;
- (ii) Monthly allowance of 1350 PLN (approximately US \$450) corresponding to the salary of a local junior research fellow. Thus, all living expenses in Poland are to be borne by the fellow with this allowance; and;
- (iii) An installation allowance of 1350 PLN to be paid upon arrival in Poland.

**No provision to finance or lodge family members is made.**

At the end of the research studies, the beneficiaries will receive a certificate attesting to their attendance at the host institution.

#### **D. FACILITIES OFFERED BY UNESCO**

- (i) **International travel expenses:** (by the most direct, economical route) from the beneficiary's country to and from Poland will be covered by UNESCO under its Regular Programme Budget.
- (ii) **Health insurance for fellowship beneficiaries who are declared medically fit:** UNESCO fellowship holders may be covered by a health insurance policy, taken-out by the Organization for the duration of fellowship. The costs of this health insurance is subscribed to and covered by UNESCO on behalf of awarded fellows.

#### **E. VISA**

Fellows, from countries where Polish Embassies or Consulates exist, will have to obtain their entry visa to the country of study prior to their departure. Fellows, from countries where no such Embassy or Consulate exists, must secure their visa through the nearest Embassy of the Republic of Poland.

UNESCO and the Government of the Republic of Poland **provide no allowance** to defray passport and visa expenses. Selected beneficiaries will have **to secure their own visas themselves.**

#### **F. SUBMISSION OF APPLICATION FILES**

One candidature should be submitted per invited Member State. **Original applications in duplicate** must be channelled through the National Commission for UNESCO of the candidate's country and communicated to **Ali Zaid, Chief, Fellowships Section, by 21 June 2013 at the latest.** An advance copy of the application may be sent by fax (33.1) 45.68.55.03 or by e-mail [a.zaid@unesco.org](mailto:a.zaid@unesco.org) and [l.zas-friz@unesco.org](mailto:l.zas-friz@unesco.org). Applications should have **imperatively** the following attachments in **DUPLICATE**:

- (i) UNESCO fellowships application forms, **ALL four (4) pages** duly completed in English;
- (ii) Two photographs attached to the applications (4x6 cm);
- (iii) Certified copies (in English) of Bachelor's or Master's Degree obtained; and,
- (iv) UNESCO certificate of language knowledge, duly completed by a relevant authority, if the mother tongue of the candidate **is not English.**

**Deadline 21 June 2013 at the latest**

#### **IMPORTANT**

It is the National authority's responsibility to ensure that all candidates are duly informed of the above-mentioned conditions prior to the submission of applications.

Files which are incomplete or which are received after the deadline as well as candidatures that do not fulfil the requirements will not be taken into consideration.

**Only the selected candidates will receive a letter through their respective National Commissions for UNESCO.**

All application should be endorsed by the National Commission from the country of the candidate.

All correspondence should be in English.