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联合国教育、  
科学及文化组织



UNESCO Chair for  
Science, Technology  
and Engineering  
Education  
Krakow, Poland



AGH  
UNIVERSITY OF SCIENCE  
AND TECHNOLOGY

To: National Commissions for UNESCO  
of Invited Member States  
(see Annex I)

Ref. : ERI/NCS/FLP/LZF/12.140

6 March 2012

Subject : UNESCO/POLAND Co-Sponsored Fellowships Programme Engineering  
cycle 2012

Madam/Sir,

I am pleased to inform you that, within the framework of the UNESCO/Poland Co-Sponsored Fellowships Programme, cycle 2012, in Engineering, 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 have placed at the disposal of certain Member States (see Annex I) **twenty-two (21)** fellowships of **six (6)** months duration in Poland starting on 1<sup>st</sup> October 2012. Beneficiaries of these fellowships will be given the opportunity to undertake an individual research programme in the field of **Science, Technology and Engineering**.

The annexes to this letter provide detailed information regarding the qualifications required, the facilities offered, the general conditions governing the award of fellowships and the procedure for submission of applications as well as different fields of research proposed at the selected host institution.

This programme is offered in open competition. Only candidates with the necessary qualifications, who meet the criteria stipulated in the annexes, will have a chance to be selected. The applications should be addressed to: Ali Zaid, Chief, Fellowships Programme Section, UNESCO, 7, place de Fontenoy – 75352 Paris 07 SP (France), **by 15 May 2012 at the latest**.

Please accept, Madam/Sir, the assurances of my highest consideration.

Ali Zaid (Mr)  
Chief, Fellowships Programme Section

cc: Permanent Delegations to UNESCO of Invited Member States  
Polish National Commission for UNESCO  
Permanent Delegation of the Republic of Poland to UNESCO  
AGH University of Science and Technology (AGH-UST)  
UNESCO Field Offices (of invited countries)

Enclosures: Annex I (List of Invited Member States per field of studies)  
Annex II (Terms of Conditions)  
Annex III (Qualifications required per field of study)  
UNESCO Fellowship Application Form  
Certificate of Language Knowledge

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## UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2012

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

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

Project No.	FIELD OF RESEARCH/PROJECT TITLE (number of fellowships)	INVITED MEMBER STATES PER REGION	LIMIT OF AGE
1	Automation Engineering (2) Transportation system telematics.	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age
2	Computer Science (1) Development of the model of the transformation from ferrite-pearlite to austenite during heating in the continuous annealing of the Advanced High Strength Steels (AHSS)	Asia and the Pacific	no more than 26 years of age
3	Decision Engineering.(2) Problem base engineering.	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age
4	Drilling (1) Analysis of Hydraulic Fracturing Process	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 45 years of age
5	Economic Geology (1) Noble metals in porphyry copper deposits in Chile	Chile, Peru	no more than 25 years of age
6	Economic Geology (1) Copper and associated mineralization and its lithostratigraphical and tectonic context in the Neoproterozoic succession from selected sites in NW Botswana	Botswana, Namibia	no more than 45 years of age
7	Economic Sociology (1) Interrelations between new technologies and social and economic life in globalizing world	Europe, Asia and the Pacific, Africa, Arab State, Latin America and the Caribbean	no more than 45 years of age
8	Geoengineering (1) Rock Properties Influence on Injection Performance.	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 45 years of age
9	Material Engineering and Ceramic (1) Fine ceramic materials and glazes	Africa, Arab State, Asia and the Pacific	no more than 40 years of age
10	Material Engineering and Ceramic (1) Influence of some additives on basic parameters of sanitary body or glazes	Africa, Arab State, Asia and the Pacific	no more than 40 years of age
11	Material Engineering and Ceramic (1) SHS derived nanolaminates in Ti-Al-C-N system.	Africa, Arab State, Asia and the Pacific	no more than 40 years of age
12	Mechanical Engineering Technology (2) Availability problems in transportation systems and devices	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age
13	Mechanics (1) Availability problems in transportation systems and devices	Asia and the Pacific	no more than 35 years of age
14	Petrophysics (1) 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
15	Software Engineering (1) Smart methodologies for software development	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age
16	Solid State Physics (1) Studies Magnetostriction In Stoichiometric and Doped Magnetite Single Crystals	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age
17	Transport Engineering (2) Transportation technology systems and devices.	Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age
	Total fellowships: 21		

## **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**

(1 Member State)

- Sudan

## **ASIA AND THE PACIFIC**

(35 Member States and 2 Associated Members)

- Afghanistan
- Bangladesh
- Bhutan
- Cambodia
- China
- Fiji
- India
- Indonesia
- Japan
- 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.

### **Associated Members:**

- Macao China (Associate Member)
- Tokelau (Associate Member)

## **EUROPE**

(7 Member States)

- Armenia
- Azerbaijan
- Belarus
- Georgia
- Republic of Moldova
- Russian Federation
- 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).

## UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2012

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 **twenty-one (21)** fellowships of **six (6)** months duration starting on 1<sup>st</sup> October 2012 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 2012 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 Engineering.** Project no: **01**. Project title: *Transportation system telematics.*  
Countries: Africa, Arab State, 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: Computer Science.** Project no: **02**. Project title: *Development of the model of the transformation from ferrite-pearlite to austenite during heating in the continuous annealing of the Advanced High Strength Steels (AHSS)*  
Countries: **Asia**.  
Number UNESCO fellowships: 1. (limit of age: no more than 26 years old)
3. **Field of research: Decision Engineering.** Project no: **03**. Project title: *Problem base engineering.*  
Countries: Africa, Arab State, Asia and Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 2. (limit of age: no more than 40 years old)
4. **Field of research: Drilling.** Project no: **04**. Project title: *Analysis of Hydraulic Fracturing Process.*  
Countries: Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean and Pacific.  
Number UNESCO fellowships: 1 (limit of age: no more than 45 years old)
5. **Field of research: Economic Geology.** Project no: **05**. Project title: *Noble metals in porphyry copper deposits in Chile.*  
Countries: Chile or Peru.  
Number UNESCO fellowships: 1 (limit of age: no more than 25 years old)
6. **Field of research: Economic Geology.** Project no: **06**. Project title: *Copper and associated mineralization and its lithostratigraphical and tectonic context in the Neoproterozoic succession from selected sites in NW Botswana.*  
Countries: Botswana, Namibia.  
Number UNESCO fellowships: 1 (limit of age: no more than 45 years old)
7. **Field of research: Economic Sociology.** Project no: **07**. Project title: *Interrelations between new technologies and social and economic life in globalizing world.*  
Countries: Europe, Asia and the Pacific, Africa, Arab State, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than 45 years old)
8. **Field of research: Geoengineering.** Project no: **08**. Project title: *Rock Properties Influence on Injection Performance.*  
Countries: Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean  
Number UNESCO fellowships: 1 (limit of age: no more than 45 years old)
9. **Field of research: Material Engineering and Ceramic.** Project no: **09**. Project title: *Fine ceramic materials and glazes.*  
Countries: Asia and the Pacific, Africa and Arab State  
Number UNESCO fellowships: 1 (limit of age: no more than 40 years old)

10. **Field of research: Material Engineering and Ceramic.** Project no: 10. Project title: *Influence of some additives on basic parameters of sanitary body or glazes.* Countries: Asia and the Pacific, Africa and Arab State  
Number UNESCO fellowships: 1 (limit of age: no more than 40 years old)
11. **Field of research: Material Engineering and Ceramic.** Project no: 11. Project title: *SHS derived nanolaminates in Ti-Al-C-N system.* Countries: Asia and the Pacific, Africa and Arab State.  
Number UNESCO fellowships: 1 (limit of age: no more than 40 years old)
12. **Field of research: Mechanical Engineering Technology.** Project no: 12. Project title: *Availability problems in transportation systems and devices.* Countries: Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 2 (limit of age: no more than 40 years old)
13. **Field of research: Mechanics.** Project no: 13. Project title: *Development of control system parallel manipulator based of Assur group of high class.* Countries: Asia and the Pacific  
Number UNESCO fellowships: 1 (limit of age: no more than 35 years old)
14. **Field of research: Petrophysics.** Project no: 14. Project title: *Reservoir geophysics – combining well log data and laboratory data.* Countries: Asia and the Pacific, Africa, Arab State, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than 35 years old)
15. **Field of research: Software Engineering.** Project no: 15. Project title: *Smart methodologies for software development* (limit of age: no more than 35 years old)  
Countries: Asia and the Pacific, Africa, Arab State, Latin America and the Caribbean.  
Number UNESCO fellowships: 1.
16. **Field of research: Solid State Physics.** Project no: 16. Project title: *Studies Magnetostriction In Stoichiometric and Doped Magnetite Single Crystals.* Countries: Africa, Arab State, Asia and the Pacific, Latin America and the Caribbean.  
Number UNESCO fellowships: 1 (limit of age: no more than 40 years old)
17. **Field of research: Transport Engineering.** Project no: 17. Project title: *Transportation technology systems and devices.* Countries: Africa, Arab State, 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 \$430) 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 Programme Section, by 15 May 2012 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). 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 15 May 2012 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.