

Indian National Commission for Cooperation with UNESCO
Government of India
Ministry of Human Resources Development
Department of Higher Education

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UNESCO Headquarters, Paris has invited nominations for the UNESCO/
Poland Co-Sponsored Fellowships Programme in Engineering, cycle 2015.
Relevant details are on the next page.

Nominations should be forwarded to the Indian National Commission
for Cooperation with UNESCO (INCCU) latest by **29th May, 2015** (and should
not be sent directly to UNESCO) at the following address for further
consideration and onward transmission to UNESCO Headquarters, Paris,
France.

Mr. Saroj Kumar Choudhary
Section Officer (INC)
Ministry of Human Resource Development
Room No. 203 'C' Wing
Dr. Rajendra Prasad Road
Shastri Bhavan, New Delhi – 110115
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United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

منظمة الأمم المتحدة
للربية والعلم والثقافة

联合国教育、
科学及文化组织

The Assistant Director-General
for External Relations and Public Information



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



AGH
AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGY

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

Ref. : ERI/NCS/FLP/LZF/15.039

5 May 2015

Subject : UNESCO/POLAND Co-Sponsored Fellowships Programme in Engineering,
cycle 2015

Sir/Madam,

I am pleased to inform you that, within the framework of the UNESCO/Poland Co-Sponsored Fellowships Programme in Engineering, cycle 2015, the Polish National Commission for UNESCO and the UNESCO Chair for Science, Technology and Engineering Education at the AGH University of Science and Technology in Krakow have placed at the disposal of certain Member States (see Annex I) **forty-five (45)** fellowships of **six (6)** months duration each, in Poland, starting on 1 October 2015. The 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 by 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 be selected. Applications should be addressed by mail to Mr Stoyan Bantchev, Chief of the Participation Programme and Fellowships Section, (UNESCO, 7, Place de Fontenoy – 75352 Paris 07 SP, France) **by 12 June 2015 at the latest**.

A scanned copy should be sent by e-mail (s.bantchev@unesco.org; v.lopy@unesco.org and l.zas-friz@unesco.org).

Yours sincerely,

Eric Falt

**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 (UNESCO AGH Chair)
UNESCO Field Offices (of invited countries)**

**Enclosures: Annex I (List of Invited Member States and qualifications
required per field of studies)
Annex II (Terms and Conditions)
Annex III (Details of 60 proposed courses)
UNESCO Fellowship Application Form
Certificate of Language Knowledge**

UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2015

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	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 engineering mining devices, automation
02	Automation in Transportation (2) Transport System telematics	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	Mechanical/transport engineering/automation degree
03	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 in engineering be able to use MS Office and drawing programs
04	Drilling Engineering (4) Drilling and Hydraulic fracturing simulation	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree in engineering, preferably in earth engineering, petroleum or computer sciences and solving of problems using mathematic methods.
05	Economic Geology (8) Prospecting for mineral deposits in desert environment (2)	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree (05) and (06): Good skill of computer operation, MS Office, in case of any deposit, some digital data from the candidate country are welcome; (07): Basic knowledge on economic geology, mineralogy and geochemistry. Be able to work with microscopes and MS Office. (08): Good skill of computer operation, MS Office is a must. Student should bring some samples for further investigation (VDS and EBS, etc)
06	3-4 modelling of mineral deposits (2)			
07	Mineralogy and geochemistry (2)			
08	Prospecting for mineral deposits (2)			
09	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
10	Gas Engineering (4) Enhanced gas recovery (EGR) technology with CO ₂ sequestration in gas fields	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.
11	Geoengineering (4) Drilling parameters influence on injection performance	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree In engineering preferably in earth engineering, petroleum or computer sciences.
12	Geology and Mining (4) Analyse of use geothermal waters for energetical purposes (2).	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree 12 engineering background in one of the following fields: mining and geology, heat transfer, civil engineering.
13	Possibility of looking for the gas in unconventional reservoirs (2)	Africa, Asia and the Pacific	no more than 30 years of age	13 M.Sc degree basic knowledge on geology and reservoir engineering.
14	Geotourism (3) Assessment of geotouristic values of selected geological objects in the developing countries.	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree geology geophysics and environmental protection.
15	Iron Metallurgy (2) Identification of rheological character of liquid phases in blast furnace.	Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree in field of iron metallurgy
16	Materials Science and Ceramics (2) Glass-ceramic materials (1)	Africa, Asia and the Pacific	no more than 40 years of age	B.Sc or M.Sc degree Knowledge in ceramics engineering
17	MAX phase materials in Ti-Al-C-N system obtained by SHS method (1)	Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc or M.Sc degree General Knowledge in chemistry, material science and ceramics.

Project No.	FIELD OF RESEARCH/PROJECT TITLE (number of fellowships)	INVITED MEMBER STATES PER REGION	LIMIT OF AGE	ACADEMIC REQUIREMENT
18	Metallurgy (1) Vacuum refining of new steel grades	Asia and the Pacific, Latin America and the Caribbean	no more than 35 years of age	B.Sc or M.Sc degree General Knowledge in metallurgy and process control.
19	Mining and Geology (4) The deposits at the great depths	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree in mining and geoen지니어ing
20	Mining devises (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 engineering, mining devices
21	Mining Geophysics (1) Recognizing the mining discontinuity with GPR method	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree in engineering, preferably in geophysics, applied geophysics geology. General knowledge in earth sciences mathematics and physics.
22	Nanomaterial in Sensor Technology (2) Low dimensional structures as gas sensors.	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree in engineering general knowledge in material science electrical engineering
23	Safety and Reliability (2) Availability problems in transportation systems 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 in engineering general knowledge related to transportation problems, including safety and reliability problems or be familiar with CAD/CAM/CAE programs
24	Software Engineering (2) Modeling and analysis of a multi-agent system with colored Petri nets.	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree in electrical engineering, computer science or related disciplines. Good skills in computer engineering at least one year experience with programming Java language, basic knowledge in software engineering and software modelling with the UML language, be familiar with databases design and programming, good background in mathematics.
25	Solid State Physics (2) Studies Magnetostriction In Stoichiometric and Doped Magnetite Single Crystals	Africa, Asia and the Pacific, Latin America and the Caribbean	no more than 40 years of age	B.Sc or M.Sc degree Physics or technical physics
26	Transport Engineering (2) Transportation technology systems 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 in engineering general knowledge related to transportation problems, including safety and reliability problems.
	Total courses 60			

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

List of Invited Member States

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

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

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 2015

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 **forty-five (45)** fellowships of **six (6)** months duration starting on 1st October 2015 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. QUALIFICATIONS REQUIRED

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

B. FACILITIES OFFERED BY THE POLISH AUTHORITIES

- (i) Free tuition and access to the university facilities based on the local regulations. Accommodation at the AGH UST Student Campus organised for fellows by the UNESCO AGH Chair.
- (ii) Monthly allowance of **1350 PLN** (approximately US \$450) corresponding to the salary of a local junior research fellow. Thus, all living expenses and accommodation in Poland are to be borne by the fellow with this allowance; and;
- (iii) A one especial allowance of **1350 PLN** to be paid upon arrival in Poland, this sum will cover different activities related to your stay in Krakow, such as an obligatory medical check-up upon arrival (in accordance with the internal regulations for all students); cultural, historical and/or touristic visits, conferences, workshops, and seminars related to your studies.

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, this certificate will be given after receipt of the requested reports and financial clearance from the Institution.

C. 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.

D. 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**.

E. SUBMISSION OF APPLICATION FILES

Candidatures 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 Mr Stoyan Bantchev, Chief, Participation programme and Fellowships Section, by **12 June 2015 at the latest** to UNESCO mailing address. An advance copy of the application should be sent by fax (33.1) 45.68.55.03 or by e-mail s.bantchev@unesco.org; v.lopy@unesco.org and 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 using capital letter** (illegible documents will be eliminated from the procedure, hand writing form must include capital letter only);
- (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**.
- (v) Two letters of recommendation from someone related to the candidate's work, as well confirming the candidate's qualifications.

Deadline 12 June 2015 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.

AGH University of Science and Technology, KRAKOW, POLAND
UNESCO CHAIR FOR SCIENCE, TECHNOLOGY AND ENGINEERING
EDUCATION AT THE AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY
KRAKOW, POLAND
A. Mickiewicza Ave 30, PL 30-059 Krakow, Poland
E-mail: unesco@agh.edu.pl

List of projects proposal
UNESCO/ Poland Co-sponsored Fellowship Programme
in Engineering edition 2015 A (AGH UST)
Call for submission

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 forty five (45) fellowships in English language only of six (6) months duration starting on 1st October 2015 for the benefit of Member States listed in Annex 01 and 02. Beneficiaries of these fellowships will be given the opportunity to undertake an individual research programme under supervision of tutor in the field of the Science, Technology and Engineering.

ID 2015A 01 AGH PL. Automation in Mining Devices (Field of research). Mining devices automation (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering, mining devices, automation; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age; and be in good health, both physically and mentally, have a general knowledge in mining devices engineering and automation. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (optional: Africa, Asia, Pacific Region, Latin America, Caribbean countries); Number of fellowships with free tuition sponsored by UNESCO: 4.

ID 2015A 02 AGH PL. Automation in Transportation (Field of research). Transport System Telematics (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have mechanical/ transport engineering/ automation degree; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age; and be in good health, both physically and mentally, have a general knowledge related to transportation problems, including safety and reliability problems, have a general knowledge related to transportation problems, including safety and reliability problems, be familiar with transport system telematics, be able to analysis of reliability, maintainability and availability of machine maintenance, as well as modeling. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (optional: Africa, Asia, Pacific Region, Latin America, Caribbean countries); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 03 AGH PL. Decision Engineering (Field of research). Problem base engineering (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have B.Sc. or M.Sc. degree; Candidates requirements: be proficient in



reading and writing in English, be not more than 40 years of age; and be in good health, both physically and mentally, be able to use MS Office and drawing programs. have a general knowledge related to engineering problems. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (optional: Africa, Asia, Pacific Region, Latin America, Caribbean countries); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 04 AGH PL. Drilling Engineering (Field of research). Drilling and Hydraulic Fracturing Simulation (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering, preferably in earth engineering, petroleum or computer sciences; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, be able to solve problems using mathematical methods. Project duration: 6 months. Proposed starting date: 01.10. 2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 4.

ID 2015A 05 AGH PL. Economic Geology (Field of research). Prospecting for mineral deposits in desert environment (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, good skill of computer operation, MS Office is a minimum. In the case of any deposit some digital data from the candidate country are welcome, eg. xyz (drill hole logging), chemical data (eg. Cu and other elements contents, related to sample logging); Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 06 AGH PL. Economic Geology (Field of research). 3-4 Modeling of mineral deposits (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, good skill of computer operation, MS Office is a minimum. In the case of any deposit some digital data from the candidate country are welcome, eg. xyz (drill hole logging), chemical data (eg. Cu and other elements contents, related to sample logging); Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 07 AGH PL. Economic Geology (Field of research). Mineralogy and geochemistry (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, basic knowledge on economic geology, mineralogy and geochemistry; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, be able to work with an optical type microscopes and MS Office. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 2.



ID 2015A 08 AGH PL. Economic Geology (Field of research). Prospecting for mineral deposits (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, good skill of computer operation, MS Office is a minimum. In the case of any deposit some digital data from the candidate country are welcome, eg. xyz (drill hole logging), chemical data (eg. Cu and other elements contents, related to sample logging). Student should bring some samples for further investigation (e.g. under reflected light microscope, WDS and EDS); Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 09 AGH PL. Economic Sociology and Economics (Field of research). Interrelations between new technologies and social and economic life in globalizing world (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in humanities or social sciences or economic; Candidates requirements: be proficient in reading and writing in English, be not more than 35 years of age and be in good health, both physically and mentally, general knowledge in world economics. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 1.

ID 2015A 10 AGH PL. Gas Engineering (Field of research). Enhanced Gas Recovery (EGR) technology with CO₂ sequestration in gas fields (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in petroleum engineering, geoscience, gas engineering or mechanical engineering; Candidates requirements: be proficient in reading and writing in English, be not more than 35 years of age and be in good health, both physically and mentally. Project duration: 6 months. Proposed starting date: 01.10. 2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 4.

ID 2015A 11 AGH PL. Geoen지니어링 (Field of research). Drilling Parameters Influence on Injection Performance (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering, preferably in earth engineering, petroleum or computer sciences; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, be able to solve problems using mathematical methods. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 4.

ID 2015A 12 AGH PL. Geology and Mining (Field of research). Analyse of use geothermal waters for energetical purposes (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, engineering background in the one of the field: mining and geology, heat transfer, civil engineering; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia,



Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 13 AGH PL. Geology and Mining (Field of research). Possibility of looking for the gas unconventional reservoirs (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a M.Sc. degree, basic knowledge on geology and reservoir engineering; Candidates requirements: be proficient in reading and writing in English, be not more than 30 years of age and be in good health, both physically and mentally. General knowledge in operate computers programming, Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia): Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 14 AGH PL. Geotourism (Field of research). Assessment of geotouristics values of selected geological objects in the developing countries (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in geology, geophysics and environmental protection; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, general knowledge in Geotourism. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 3.

ID 2015A 15 AGH PL. Iron Metallurgy (Field of research). Identification of rheological character of liquid phases in blast furnace. AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in iron metallurgy; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, be good skills and experiences laboratory, be experiences at modeling of dripping zone of blast furnace. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Asia, Latin America); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 16 AGH PL. Materials Science and Ceramics (Field of research). Glass-ceramic material (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally; general knowledge in ceramic engineering. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (optional Asia, Africa); Number of fellowships with free tuition sponsored by UNESCO: 1.

ID 2015A 17 AGH PL. Materials Science and Ceramics (Field of research). MAX phase materials in Ti-Al-C-N system obtained by SHS method (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Candidates requirements: be proficient in reading and writing in English, be not more than 35 years of age and be in good health, both physically and mentally and have general knowledge in chemistry, material science and ceramics. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 1.



ID 2015A 18 AGH PL. Metallurgy (Field of research). Vacuum refining of new steel grades (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Candidates requirements: be proficient in reading and writing in English, be not more than 25 years of age and be in good health, both physically and mentally, general knowledge in metallurgy and process control. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Asia, Latin America); Number of fellowships with free tuition sponsored by UNESCO: 1.

ID 2015A 19 AGH PL. Mining and Geology (Field of research). The deposits at the great depths (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in mining and geoengineering; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, general knowledge in mining and geo-engineering, as well as in designing of underground structures like shafts, underground chambers and galleries. Project duration: 6 months. Proposed starting date: 1.10. 2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 4.

ID 2015A 20 AGH PL. Mining Devices (Field of research). Selected problems in operation of mining devices (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering, mining devices; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age; and be in good health, both physically and mentally, have a general knowledge in mining devices engineering. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (optional: Africa, Asia, Pacific Region, Latin America, Caribbean countries); Number of fellowships with free tuition sponsored by UNESCO: 4.

ID 2015A 21 AGH PL. Mining Geophysics (Field of research). Recognizing the mining discontinuity with GPR method (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering, preferably in geophysics, applied geophysics, geology; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, be able to work in team, general knowledge in earth sciences, mathematics and physics. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 1.

ID 2015A 22 AGH PL. Nanomaterials in Sensor Technology (Field of research). Low dimensional structures as gas sensors (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, general knowledge in material science, electrical engineering. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 23 AGH PL. Safety and Reliability (Field of research). Availability problems in transportation systems and devices (Project title). AGH University of Science and Technology;



Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age; and be in good health, both physically and mentally, be able to write computer programs for example or be familiar with CAD/ CAM/ CAE programs, have a general knowledge related to transportation problems, including safety and reliability problems. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (optional: Africa, Asia, Pacific Region, Latin America, Caribbean countries); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 24 AGH PL. Software Engineering (Field of research). Modeling and analysis of a multiagent system with colored Petri nets (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in electrical engineering, computer science or related disciplines; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally, good skills in computer engineering, at least one year experience with programming in the Java language, basic knowledge in software engineering and software modeling with the UML language, be familiar with databases design and programming, good background in mathematics. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America, Caribbean and Pacific); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 25 AGH PL. Solid State Physics (Field of research). Studies Magnetostriction In Stoichiometric and Doped Magnetite Single Crystals (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in physics or technical physics; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age and be in good health, both physically and mentally. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (Africa, Asia, Latin America); Number of fellowships with free tuition sponsored by UNESCO: 2.

ID 2015A 26 AGH PL. Transport Engineering (Field of research). Transportation technology systems and devices (Project title). AGH University of Science and Technology; Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering; Candidates requirements: be proficient in reading and writing in English, be not more than 40 years of age; and be in good health, both physically and mentally, have a general knowledge related to transportation problems, including safety and reliability problems, have a general knowledge related to transportation problems, including safety and reliability problems. Project duration: 6 months. Proposed starting date: 01.10.2015. Language: English. UNESCO Member States (optional: Africa, Asia, Pacific Region, Latin America, Caribbean countries); Number of fellowships with free tuition sponsored by UNESCO: 2.

Krakow, 20 April 2015

