

UNESCO Chair for Science, Technology and Engineering Education
at the AGH University of Science and Technology, Krakow, Poland

UNESCO/ Poland Co-sponsored Fellowship Programme in Engineering, edition 2019A
Projects proposal list

knowledge on porphyry and epithermal systems; own samples for studying are REQUIRED. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 10 AGH PL. Earth Science and the Environment (discipline). Characteristic and genesis of Cu-deposits of South and Southeastern Asia ophiolite belt (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge of Pakistan Geology as well as geology of southern Asia and ore deposits be familiar with EMPA and EDX analyses; student of economic geology; general knowledge on volcanic hosted copper deposits; own samples for studying are REQUIRED. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 11 AGH PL. Earth Science and the Environment (discipline). Tungsten, Tin deposit in central Africa (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 12 AGH PL. Earth Science and the Environment (discipline). REE deposit in Mongolia (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 13 AGH PL. Earth Science and the Environment (discipline). Tin deposit in Central Africa (Project title). Academic requirements: candidates should have a B.Sc. or M.Sc. degree; Qualifications required: candidate without samples will be not accepted; be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting: 01.10.2019. Language: English. UNESCO Member States (Africa). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 14 AGH PL. Earth Science and the Environment (discipline). REE deposit in SE Asia (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: the list of the samples should be including to the application form; be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months.





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
للترية والعلم والثقافة

联合国教育、
科学及文化组织

The Assistant Director-General for Priority Africa and External Relations

uniTwin

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.: PAX/MSP/PPF/LZF/19.009

14 March 2019

Subject: UNESCO/POLAND Co-Sponsored Fellowships Programme in Engineering
Cycle 2019

Sir/Madam,

I am pleased to inform you that, within the framework of the UNESCO/Poland Co-Sponsored Fellowships Programme in Engineering, cycle 2019, 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) **twenty (20)** fellowships of **six (6)** months duration each, in Poland, starting on 1 October 2019. 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. Given that UNESCO attaches high priority to gender equality, special attention should be paid to women's candidatures for an equal representation. 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 30 April 2019 at the latest**.

A scanned copy should be sent by e-mail (s.bantchev@unesco.org; l.zas-friz@unesco.org; d.bianchi@unesco.org and unesco4@agh.edu.pl).

Yours sincerely,

Firmin Edouard Matoko

Enclosures:

- Annex I (Requirements and List of Invited Member States)
- Annex II (Terms and Conditions)
- Annex III (Details of 27 proposed projects)
- Information sheet and check list
- UNESCO Fellowship Application Form
- Certificate of Language Knowledge

7, place de Fontenoy
75352 Paris 07 SP, France
Tél.: +33 (0)1 45 68 13 13
Fax: +33 (0)1 45 68 55 03
E-Mail: l.zas-friz@unesco.org

UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2019

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)	LIMIT OF AGE	ACADEMIC REQUIREMENT Be proficient in reading and writing in English.
01	Biomedical Engineering (4 projects)		
	Thermal issues in Electronics and Bioengineering. (2)	no more than 34 years of age	B.Sc. or M.Sc. Degree in Electronics, Computer Science, Physics, Electrotechnics, Electrical Engineering, Bioengineering, Mathematics (01) General knowledge in computer operations
	A multicamera visual system for continuous pulse tracking in human. (1)	no more than 30 years of age	M.Sc. Degree in Biomedical Engineering, Electrical Engineering or Computer Science (02) General knowledge in computer usage and programming (C++, Java etc.), electronic equipment, signal and image processing, video recording and transmission system, human physiology and measurements. Scientific and technical reading and writing in English and experience with Matlab will also be welcome.
	Analysis of noise sources and predication to their influence on digital electrocardiogram. (1)		(03) General knowledge in computer usage and programming (C++, Java etc.), electronic equipment, signal and image processing, statistics, human physiology and measurements. Scientific and technical reading and writing in English and experience with Matlab will also be welcome.
02	Multimodal physiological measurements for recognition of human daily activity. (1)		(04) General knowledge in computer usage and programming (C++, Java etc.), electronic equipment, signal and image processing, human physiology and measurements. Scientific and technical reading and writing in English and experience with Matlab will also be welcome.
03			
04			
05	Civil Engineering and Transport (2 projects)	no more than 30 years of age	
	Laser scanning in the inventory of mining industry facilities. (1)		B.Sc. Degree (05) General knowledge in surveying, CAD programs.
	The use of video cameras to create metric 3D models of engineering objects. (1)		M.Sc. Degree (06) General knowledge in surveying, CAD programs.
06			
07	Earth Science and the Environment (10 projects)	no more than 34 years of age	B.Sc. or M.Sc. Degree (07) Hardworking general knowledge in geophysics, geology and environment.
	Geological and geophysical characteristics of the REE deposits in the FAR EAST especially in the Indochina block. (2)		(08) General knowledge of South America geology and metallogeny; be familiar with EMPA and EDX analyses; student of economic geology; general knowledge on porphyry and epithermal systems; own samples for studying are REQUIRED.
	Antimony and related mineral deposit in South America. (1)		(09) General knowledge of South America geology and metallogeny; be familiar with EMPA and EDX analyses; student of economic geology; general knowledge on porphyry and epithermal systems; own samples for studying are REQUIRED.
	Mineralogical characteristics of the epithermal systems in South America. (2)		(10) General knowledge of Pakistan geology as well as geology of southern Asia and ore deposits; be familiar with EMPA and EDX analyses; student of economic geology; general knowledge on volcanic hosted copper deposits; own samples for studying are REQUIRED.
	Characteristic and genesis of Cu-deposits of South and Southeastern Asia ophiolite belt. (1)		(11) General knowledge in geology, mineralogy, geochemistry, mineral deposit.
	Tungsten, Tin deposit in Central Africa. (1)		(12) General knowledge in geology, mineralogy, geochemistry, mineral deposit.
	REE deposit in Mongolia. (1)		(13) General knowledge in geology, mineralogy, geochemistry, mineral deposit. Candidate without samples will be not accepted.
	Tin deposit in Central Africa. (1)		(14) General knowledge in geology, mineralogy, geochemistry, mineral deposit. The list of the samples should be included to the application form.
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Project No.	FIELD OF RESEARCH/PROJECT TITLE (Number of Fellowships)	LIMIT OF AGE	ACADEMIC REQUIREMENT Be proficient in reading and writing in English.
15	Assessment of geotourism resources of selected geological regions in the developing countries. (3)	no more than 34 years of age	B.Sc. or M.Sc. Degree (15) General knowledge in geology, geography, tourism, geotourism, environment protection.
16	Geophysical data analysis using advance statistical methods. (1)		(16) General knowledge in mathematics and physics; be familiar with programming in C/C++ or Python or Matlab; knowledge of basics of statistical analysis, basics of signal analysis, basics of geophysics, basic geology (but not essential).
Environmental Engineering, Mining and Energy (2 projects)			
17	Robotic system for Europa moon exploration. (5)	no more than 34 years of age	B.Sc. or M.Sc. Degree (17) MS Office (Word, Excel); MATLAB; Autodesk Inventor or other 3D CAD software; Programming skills or interests; Mechanics; Physics basics; Mathematics (academic level e.g.: derivatives, integrals, series, differential equations); Numerical methods; Technical and manual skills; Electronics; Chemical Engineering. Skills are welcome: Orbital mechanics; FEM modelling (FEM – Finite Element Method) in Ansys, MSC Nastran, Abaqus or in other programs; Space Tribology basics; Space environment basics
18	Drilling and fracturing. (1)		B.Sc. or M.Sc. Degree. Preferably in Petroleum, Earth Engineering, Physics and Mathematics (18) Be able to solve problems using mathematical methods.
19	Materials Engineering (1 project) Wear resistant ceramic composites. (2)	no more than 25 years of age	B.Sc. or M.Sc. degree (19) General knowledge in materials science or ceramic technology.
20	Mechanical Engineering (6 projects) Availability problems in transportation system and devices. (2)	no more than 34 years of age	B.Sc. or M.Sc. Degree (20) Be able to write computer programs, be familiar with CAD/ CAM/ CAE programs, have a general knowledge related to transportation problems, including safety and reliability programs.
21	Transportation technology system and devices. (2)		(21) Be familiar with CAD/ CAM/ CAE programs, have a general knowledge related to transportation problems, including modeling and monitoring.
22	Transport system telematics. (2)		(22) Candidates should have mechanical/ transport engineering/ automation degree; be familiar with transport system telematics and automation; be able to analysis of reliability, maintainability and availability of machine maintenance, as well as modeling.
23	Problem base engineering decision making. (2)		(23) Be able to use MS Office and drawing programs, have a general knowledge related to engineering problems.
24	Selected problems in operation of mining devices. (2)		(24) Candidates should have a B.Sc. or M.Sc. degree in engineering, mining devices.
25	Mining devices automation. (2)		(25) Candidates should have a B.Sc. or M.Sc. degree in engineering, automation in mining devices.
Sociological Sciences (2 projects)			
26	Interrelations between new technologies and social and economic life in globalizing world. (1)	no more than 34 years of age	B.Sc. or M.Sc. Degree, MA Degree in Humanities or Social Sciences or Economics (26) General knowledge in world economics.
27	Ethnic inequality in contemporary world, postcolonial studies. (1)		(27) General knowledge in sociology.
27 projects for 20 fellowships			

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

List of Invited Member States (71)

AFRICA

(32 Member States)

- Angola
- Benin
- Botswana
- Burkina Faso
- Cameroon
- Cape Verde
- Chad
- Côte d'Ivoire
- Democratic Republic of the Congo
- Eritrea
- Ethiopia
- Gabon
- Gambia
- Ghana
- Kenya
- Lesotho
- Madagascar
- Malawi
- Mali
- Mauritius
- Mozambique
- Namibia
- Niger
- Nigeria
- Rwanda
- Senegal
- South Africa
- Togo
- Uganda
- United Republic of Tanzania
- Zambia
- Zimbabwe

ARAB STATES

(2 Member States)

- Iraq
- Syrian Arab Republic(the)

ASIA AND THE PACIFIC

(23 Member States)

- Bangladesh
- Bhutan
- Brunei Darussalam
- Cambodia
- Fiji
- India
- Indonesia
- Kazakhstan
- Kyrgyzstan
- Lao People's Democratic Republic
- Malaysia
- Mongolia
- Myanmar
- Nepal
- Pakistan
- Papua New Guinea
- Philippines
- Sri Lanka
- Tajikistan
- Thailand
- Turkmenistan
- Uzbekistan
- Viet Nam

LATIN AMERICA AND THE CARIBBEAN

(14 Member States)

- Argentina
- Bolivia (Plurinational State of)
- Brazil
- Chile
- Colombia
- Cuba
- Ecuador
- El Salvador
- Haiti
- Jamaica
- Mexico
- Panama
- Peru
- Trinidad and Tobago



UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2019

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 (20) fellowships of six (6) months duration** starting on 1st October 2019 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**. For more information please visit also <http://www.unesco.agh.edu.pl/en/>.

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.
- (ii) Monthly allowance of **1600 PLN** (1 EUR = approximately 4,0 PLN) 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-time special allowance of **1600 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 or Consulate 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 by the 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 **30 April 2019 at the latest (GMT +01:00)** 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 unesco4@agh.edu.pl; s.bantchev@unesco.org; d.bianchi@unesco.org and I.zas-friz@unesco.org. Applications should have **imperatively** the following attachments in **DUPLICATE**:

- (i) UNESCO fellowships application forms, including medical certificate, **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/ PhD 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.
- (vi) The endorsed candidates should register themselves to the Fellowship e-registration system available on the page: <http://www.unesco.agh.edu.pl/en/>.

Deadline 30 April 2019 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.

UNESCO Chair for Science, Technology and Engineering Education
at the AGH University of Science and Technology, Krakow, Poland

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**UNESCO/ Poland Co-sponsored Fellowship Programme in Engineering,
edition 2019A
PROJECTS PROPOSAL LIST**

**Scientific contents: individual research programme in the field of engineering and technical sciences
under supervision of tutor and coordinated by the UNESCO AGH Chair.**

ID 2019A 01 AGH PL. Biomedical Engineering (discipline). Thermal issues in Electronics and Bioengineering (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in Electronics, Computer Science, Physics, Electrotechnics, Electrical Engineering, Bioengineering, Mathematics; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in computer operations. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 02 AGH PL. Biomedical Engineering (discipline). A multicamera visual system for continuous pulse tracking in human (Project title). Academic requirements: Candidates should have a M.Sc. degree in biomedical engineering, electrical engineering or computer science; Qualifications required: Candidates should 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; Candidates should have a general knowledge in computer usage and programming (C++, Java etc.), electronic equipment, signal and image processing, video recording and transmission system, human physiology and measurements. Scientific and technical reading and writing in English and experience with Matlab will also be welcome. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 03 AGH PL. Biomedical Engineering (discipline). Analysis of noise sources and prediction to their influence on digital electrocardiogram (Project title). Academic requirements: Candidates should have a M.Sc. degree in biomedical engineering, electrical engineering or computer science; Qualifications required: Candidates should 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; Candidates should have a general knowledge in computer usage and programming (C++, Java etc.), electronic equipment, signal and image processing, statistics, human physiology and measurements. Scientific and technical reading and writing in English and experience with Matlab will also be welcome. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 04 AGH PL. Biomedical Engineering (discipline). Multimodal physiological measurements for recognition of human daily activity (Project title). Academic requirements: Candidates should have a M.Sc. degree in biomedical engineering, electrical engineering or computer science; Qualifications required: Candidates should 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; Candidates should have a general knowledge in computer usage



ANNEX III

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
www.unesco.agh.edu.pl

*List of invited member States per region and field of research
 as determined by the Polish Authorities, 2019A*

Project number	Disciplines (number of positions)	Invited Member States per Regions
ID 2019A 01-04 AGH PL	Biomedical Engineering (5)	Africa, Asia and the Pacific, Latin America and the Caribbean
ID 2019A 05-06 AGH PL	Civil Engineering and Transport (2)	Africa, Asia and the Pacific
ID 2019A 07-16 AGH PL	Earth Science and the Environment (15)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 17-18 AGH PL	Environmental Engineering, Mining and Energy (6)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 19 AGH PL	Materials Engineering (2)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 20-25 AGH PL	Mechanical Engineering (12)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 26-27 AGH PL	Sociological Sciences (2)	Africa, Asia and the Pacific, Latin America and the Caribbean
Total project number: 27	Total positions into proposed projects: 44	

Please refer to the list of invited Member States entitled to submit applications (Annex I).

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and programming (C++, Java etc.); electronic equipment, signal and image processing, human physiology and measurements. Scientific and technical reading and writing in English and experience with Matlab will also be welcome. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 05 AGH PL. Civil Engineering and Transport (discipline). Laser scanning in the inventory of mining industry facilities (Project title). Academic requirements: Candidates should have a B.Sc. minimum; Qualifications required: 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 surveying, CAD programs. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 06 AGH PL. Civil Engineering and Transport (discipline). The use of video cameras to create metric 3D models of engineering objects (Project title). Academic requirements: Candidates should have a M.Sc. degree; Qualifications required: 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 surveying, CAD programs. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 07 AGH PL. Earth Science and the Environment (discipline). Geological and geophysical characteristics of the REE deposits in the FAR EAST especially in the Indochina block. (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: Candidates should be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; others hardworking general knowledge in geophysics, geology and environment. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (East Asia). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 08 AGH PL. Earth Science and the Environment (discipline). Antimony and related mineral deposit in South America (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge of South America geology and metallogeny; be familiar with EMPA and EDX analyses; student of economic geology; general knowledge on porphyry and epithermal systems; own samples for studying are REQUIRED. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 09 AGH PL. Earth Science and the Environment (discipline). Mineralogical characteristics of the epithermal systems in South America (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge of South America geology and metallogeny; be familiar with EMPA and EDX analyses; student of economic geology; general



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Projects proposal list

knowledge on porphyry and epithermal systems; own samples for studying are REQUIRED. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 10 AGH PL. Earth Science and the Environment (discipline). Characteristic and genesis of Cu-deposits of South and Southeastern Asia ophiolite belt (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge of Pakistan Geology as well as geology of southern Asia and ore deposits be familiar with EMPA and EDX analyses; student of economic geology; general knowledge on volcanic hosted copper deposits; own samples for studying are REQUIRED. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 11 AGH PL. Earth Science and the Environment (discipline). Tungsten, Tin deposit in central Africa (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 12 AGH PL. Earth Science and the Environment (discipline). REE deposit in Mongolia (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 13 AGH PL. Earth Science and the Environment (discipline). Tin deposit in Central Africa (Project title). Academic requirements: candidates should have a B.Sc. or M.Sc. degree; Qualifications required: candidate without samples will be not accepted; be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting: 01.10.2019. Language: English. UNESCO Member States (Africa). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 14 AGH PL. Earth Science and the Environment (discipline). REE deposit in SE Asia (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: the list of the samples should be including to the application form; be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in geology, mineralogy, geochemistry, mineral deposit. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months.



UNESCO Chair for Science, Technology and Engineering Education
at the AGH University of Science and Technology, Krakow, Poland

UNESCO/ Poland Co-sponsored Fellowship Programme in Engineering, edition 2019A
Projects proposal list

Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 20 AGH PL. Mechanical Engineering (discipline). Availability problems in transportation system and devices (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: Candidates should be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; be able to write computer programs, be familiar with CAD/ CAM/ CAE programs, have a general knowledge related to transportation problems, including safety and reliability problems. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 21 AGH PL. Mechanical Engineering (discipline). Transportation technology system and devices (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: Candidates should be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; be familiar with CAD/ CAM/ CAE programs, have a general knowledge related to transportation problems, including modeling and monitoring. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 22 AGH PL. Mechanical Engineering (discipline). Transport system telematics (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Candidates should have mechanical/ transport engineering/ automation degree; Qualifications required: Candidates should be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; knowledge in reading and writing in English; be familiar with transport system telematics and automation; be able to analysis of reliability, maintainability and availability of machine maintenance, as well as modeling. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2

ID 2019A 23 AGH PL. Mechanical Engineering (discipline). Problem base engineering decision making (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree; Qualifications required: Candidates should be proficient in reading and writing in English; be not more than 34 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. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 24 AGH PL. Mechanical Engineering (discipline). Selected problems in operation of mining devices (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering; Mining Devices; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland.



UNESCO Chair for Science, Technology and Engineering Education
at the AGH University of Science and Technology, Krakow, Poland

UNESCO/ Poland Co-sponsored Fellowship Programme in Engineering, edition 2019A
Projects proposal list

Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 25 AGH PL. Mechanical Engineering (discipline). Mining devices automation (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in engineering; automation in mining devices; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 2.

ID 2019A 26 AGH PL. Sociological Sciences (discipline). Interrelations between new technologies and social and economic life in globalizing world (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, MA degree in humanities or social sciences or economics; Qualifications required: be proficient in reading and writing in English; be not more than 34 years of age; and be in good health, both physically and mentally; general knowledge in world economics. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Latin America and the Caribbean). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

ID 2019A 27 AGH PL. Sociological Sciences (discipline). Ethnic inequality in contemporary world, postcolonial studies. (Project title). Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, General knowledge in sociology; Qualifications required: be proficient in reading and writing in English; general knowledge in sociology. Name of the institution: AGH University of Science and Technology. Full address: Ave. A. Mickiewicza 30, PL 30-059 Krakow, Poland. Project duration: 6 months. Starting date: 01.10.2019. Language: English. UNESCO Member States (Africa, Asia and the Pacific, Arab States). Number of fellowships with free tuition sponsored by UNESCO (max): 1.

Table 01. Projects proposal list, UNESCO/ Poland Co-sponsored Fellowship Programme in Engineering, edition 2019A.

Project number	Disciplines (number of positions)	Invited Member States per Regions
ID 2019A 01-04 AGH PL	Biomedical Engineering (5)	Africa, Asia and the Pacific, Latin America and the Caribbean
ID 2019A 05-06 AGH PL	Civil Engineering and Transport (2)	Africa, Asia and the Pacific
ID 2019A 07-16 AGH PL	Earth Science and the Environment (15)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 17-18 AGH PL	Environmental Engineering, Mining and Energy (6)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 19 AGH PL	Materials Engineering (2)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 20-25 AGH PL	Mechanical Engineering (12)	Africa, Asia and the Pacific, Latin America and the Caribbean, Arab States
ID 2019A 26-27 AGH PL	Sociological Sciences (2)	Africa, Asia and the Pacific, Latin America and the Caribbean
Total project number: 27	Total positions into proposed projects: 44	



Information sheet and Check list

**UNESCO/POLAND Co-Sponsored Fellowships Programme Engineering
2019 Cycle**

Please complete the following page that should be attached to the application form:

Name of the candidate: _____

Country: _____

Age: _____

Date of birth ____/____/____ (Day dd/Month mm/Year yyyy)

E-mail _____@_____

Last degree obtained: _____ (**Bachelor's** or **Master's degree** or **PhD**)
Year _____

Tick the corresponding domain of research:

- | | |
|---|---|
| <input type="checkbox"/> Biomedical Engineering | <input type="checkbox"/> Materials Engineering |
| <input type="checkbox"/> Civil Engineering and Transport | <input type="checkbox"/> Mechanical Engineering |
| <input type="checkbox"/> Earth Science and the Environment | <input type="checkbox"/> Sociological Sciences |
| <input type="checkbox"/> Environmental Engineering, Mining and Energy | |

Number project [see Annex I of the announcement letter]: _____

Please insure that the following documents are attached to the application:
[Ref. Letter of announcement PAX/MSP/PPF/LZF/19.009]

- ☐ **Two UNESCO Fellowship Application Form duly completed in duplicate MUST BE ENDORSED BY YOUR NATIONAL COMMISSION** (signed and stamped by the National Commission of the country's candidate).
- ☐ **Two recent photographs (obligatory)** should be included with the form
- ☐ Two letters of **recommendation** from someone familiar with the candidate's work
- ☐ Certified copies of degrees or diplomas (including transcript of grades) in duplicate. Proof of having obtained a **Bachelor's / Master's / PhD degree**.
- ☐ The **certificate of English language proficiency** (on the UNESCO form) duly completed (if your mother tongue is not English) issued by an official authority, or copy of Toefl, Cambridge etc.
- ☐ You should enter the application on the Web site:
<http://www.unesco.agh.edu.pl/en/unescoagh-fellowships/unescoagh-fellowships-proposals/>
and attach the endorsement of your National Commission for UNESCO, without the endorsement no applications will be taken into consideration.
- ☐ If you have problems to apply online please contact: unesco4@agh.edu.pl



United Nations Educational, Scientific and Cultural Organization

7, place de Fontenoy, 75352 Paris 07 SP
telephone: (33.1) 45.68.10.00

APPLICATION FOR FELLOWSHIP

under the
UNESCO CO-SPONSORED
FELLOWSHIPS PROGRAMME

Instructions: The application form should be submitted by the National Commission for UNESCO and each part should be answered completely and accurately. *The application should be submitted in two copies.* The information requested should be either typed or written in ink in block capitals. Where additional space is needed, a separate sheet should be used and attached in two copies.

A. Official presentation

The National Commission for UNESCO of the presents herewith
candidature of
in the field of
for a duration of to begin
under Programme and/or Project.....

The National Commission for UNESCO supports the above-mentioned candidature to the Fellowships Programme.

.....
Name and title of responsible officer

.....
Date (seal) ..

.....
Signature

B. Background data concerning the candidate

Family name (surname)		First and middle names		Nationality	Occupation
Permanent address			Telephone..... E-mail.....		Please attach photo here (Optional)
Mailing address (if different from above)			Telephone..... E-mail.....		
Date of birth day .. month .. year ..	Country and place of birth		Sex		
Marital status	Full name of spouse	Number and age of children		Name and address of person to notify in case of accident	

Education

Name, place and country of educational establishments	Years attended		Degrees, diplomas: Indicate main subjects	Date obtained
	from	to		
Secondary, technical, etc.
Post-secondary, university, or equivalent

IMPORTANT: This application is not considered complete unless accompanied by certified copies of diplomas received and academic transcripts of courses followed and grades or marks obtained

Other studies

Mention any other studies undertaken, including training/refresher courses

Fellowships and scholarships

Which of the above studies were undertaken with a fellowship or scholarship? Mention the sponsor of the grant

Visits abroad

List any significant visits abroad not mentioned above

Publications and research

List any significant publications (including publisher and date of publication) and any major research projects undertaken

Languages

Mother tongue:

Other languages	Read		Understand (spoken)		Speak		Write	
	Easily	Not easily	Easily	Not easily	Fluently	Not fluently	Easily	Not easily
.....

The UNESCO certificate of language knowledge should be completed and attached to this application

References

List three persons, not related to the candidate, who can provide information on his/her qualifications. These persons should normally be teachers or supervisors acquainted with the candidate's previous academic work

Full name	Title and address
.....

Previous professional activities

Employer	Dates of service		Responsibilities
	From	To	

Present position

Name and address of employer Years of service From To Exact title of post Annual salary Name and title of supervisor Name and title of UNESCO expert counterpart (if any)	Current duties
---	--

C. Training objectives

Nature of studies

Indicate field of study and particular areas of specialization 	Should the studies be directed toward obtaining a diploma, degree or qualification or should the studies have mainly a practical or applied orientation?
Should the programme include preparation of a thesis or other piece of research? Is the purchase of special equipment required?	

Place(s) of study

In order of preference, suggest countries of study and list below them any preferences for institutions where the studies could be undertaken		
1.	2.	3.
	and/or	and/or
(others)		
For what reasons are the institutions listed above being proposed?		
Mention any previous contact with these institutions and attach confirmation of admission, if available		
IMPORTANT: Any further contact for the fellowship programme should be made only through UNESCO		

Details of proposed studies

(If additional space is needed, separate sheets should be attached)

Give precise details of studies to be undertaken

Give realistic budget estimates for the fellowship requested (return travel, monthly allowance, tuition fees, etc.)

Expected results and future assignment

Indicate how it is envisaged to make the best use of the results achieved and specify what position will be taken up at the end of the fellowship with a description of future responsibilities

Candidate's statement

If UNESCO grants me a fellowship I agree to take up after my period of study the position to be assigned to me as described above. I certify the information I have provided is complete and accurate

Candidate's signature



7, place de Fontenoy, 75352 Paris 07 SP
telephone: (33.1) 45.68.10.00

APPLICATION FOR FELLOWSHIP

CERTIFICATE OF LANGUAGE KNOWLEDGE

Name of candidate	Language
Address of candidate	

(1) **ABILITY TO UNDERSTAND**

(a) Understands without difficulty when addressed at normal rate.....	□
(b) Understands almost everything, if addressed slowly and carefully.....	□
(c) Requires frequent repetition and/or translation of words and phrases.....	□
(d) Does not understand spoken language.....	□

(2) **ABILITY TO SPEAK**

(a) Speaks fluently and accurately and is easily intelligible	□
(b) Speaks intelligibly, but is not fluent or altogether accurate.....	□
(c) Speaks haltingly, and is often at a loss for words and phrases.....	□

(3) **ABILITY TO WRITE**

(a) Writes with ease and accurately.....	□
(b) Writes slowly and/or with only a moderate degree of accuracy.....	□
(c) Writes with difficulty and makes frequent mistakes.....	□

(4) **READING ABILITY AND COMPREHENSION**

(a) Reads fluently, with full comprehension.....	□
(b) Reads slowly, but understands almost everything he reads.....	□
(c) Reads with difficulty, and only with frequent recourse to the dictionary	□
(d) Cannot read.....	□

(5) **TECHNICAL LANGUAGE**

Certain fellowships require a particular knowledge of specialized or technical language. In such cases, please evaluate candidate's ability with reference to paras. 1, 2, and 4 above.

(6) Please indicate any further facts about candidate's language knowledge which may be of value in the development of his programme:

LANGUAGE TEST HAS BEEN MADE BY

Name:	Address:
Title:	
	Date:

COMMENTS:

.....

.....

.....