



**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](mailto:unesco@agh.edu.pl)

**UNESCO AGH Fellowships ed. 2012-B in Engineering**  
**Project Proposal for 6 months**

**Naukowa oferta stypendialna UNESCO - AGH 2012 B**  
**dla młodych naukowców z krajów rozwijających**

UNESCO - AGH 2012 Project B: promoting human resource capacities in the developing countries through intensive training and to enhancing international understanding and friendship among peoples of the world and the people of Poland

**(In English only)**

1. Project title: Reservoir geophysics – combining well log data and laboratory data  
Field of research: petrophysics & well logging  
Number of fellowships with free tuition sponsored by UNESCO: 1

2. Name of institution: *AGH University of Science and Technology,*  
*Faculty of Geology Geophysics and Environmental Protection, Department of Geophysics*

Full address: A. Mickiewicz Av. 30, PL 30-059 Krakow, Poland

3. Name and Surname, title and full contact data of project supervisor:

*Prof dr Jadwiga Jarzyna*

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4. Project duration: 6 months

Proposed starting date: 1.10. 2012 (exact date to be agreed upon by the selected fellows and host Institution)

Language: English

Scientific contents: *individual research programme under supervision of tutor*

5. Developing countries (specification): *UNESCO Member States - Asia, Africa, Latin America, Caribbean and Pacific*

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in GEOPHYSICS, APPLIED GEOPHYSICS, PETROLEUM GEOLOGY, GEOLOGY

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7. Qualifications required:

*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;*

*others: ABLE TO WORK IN TEAM*

*general knowledge in EARTH SCIENCES, MATHEMATICS, PHYSICS*

8. Project description (in English):

*Project comprises methods of integrating of various geophysical and geological and petrophysical (lab) data to improve hydrocarbon and water prospection. Well logging and seismics will be the most important methods. Professional Computer systems licensed in AGH UST will be used for processing and interpretation of data. Attention will be focused on including the improved relations between various parameters into modelling of media flow in pore space. The modern Nuclear Magnetic Resonance lab measurements will be included. Preferred results of NMR logging. Seismic attributes will be combined with well log data. Project will be realised on Polish and foreign country data.*

9. Others information:

Stamp of the AGH UST Faculty

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Im. Stanisława Staszica w Krakowie  
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(1)

Project Supervisor

(signature)

*Tealipe Lem*

Dean of the Faculty

(signature and stamp)

DZIĘKAN  
*[Signature]*  
prof. dr hab. inż. Jacek Matyszkiewicz

Place and date: Krakow, 13.02. 2012