

Resume

Name: Khalidah A. Jaafar

Humphrey Fellow – Cornell University

M.Sc. Chemical Engineering, Baghdad-IRAQ

E-mail: khalidajafar@gmail.com Cell # (770) 506 1458



Researcher in renewable energy. Humphrey Fellowship alumna, and MEET US alumna.

Educational Achievements

- Cornell University, Ithaca NY USA 2009
Humphrey Fellowship participant; it is a one year award to study environmental and natural resources management. The program is a global leadership and professional development, included classes at Cornell University. As part of the program, I studied classes in environmental and sustainable renewable energy systems, energy economics and energy engineering. During my study, I made a lab research on producing biofuel from date palm fruits with Dr. Largus Angenent lab at the Biological Environmental Engineering department. I did MATLAB modeling for sustainable renewable energy industries with Professor Larry Walker, as well.
 - Degree awarded: Certificate of graduation with credits.
- Baghdad University, College of Engineering.
 - Major Study: Chemical Engineering
 - Degree awarded: M.Sc. in Chemical Engineering, 2000. My thesis was on extraction of aromatic hydrocarbons from mixture of paraffin hydrocarbon with 2-N-ethylhydropolidone solvent, 2000.
- Baghdad University, College of Engineering.
 - Major Study : Chemical Engineering
 - Degree awarded: B.Sc. in Chemical Engineering, 1982.

Current Position: Member of Edrici Center for Environmental Studies. Trainer with local NGOs for business development.

Work History & Experience

July-Aug. 2009: Internship at DAI MD USA

Eight weeks affiliation as part of the Humphrey Fellowship program. I worked on a research paper for energy efficiency and solar thermal energy potential in Iraq under the supervision of Mr. Patrick Doyle, group manager at Nature department. I was involved with other research paper on electrical energy development in Liberia.

May – Jun. 2009: Internship at NREL CO USA

- Six weeks affiliation at the National Renewable Energy Laboratory (Golden –Colorado). I made a lab research on thermochemical conversion of biomass into biofuel utilizing TGA analysis. A complete compositional analysis with ASE extraction, UV-Vis, GC, HPLC, and YSI sugar analyzer was conducted on different samples. My supervisor, Professor Robert Baldwin and I are in the process of publishing two papers.

Feb. 2008 - till joining HHH Fellowship program: Committee member of EIA studies at Edrici Center – Sulaimani Iraq

- Collected all necessary information on existing or under construction industrial project.
- Inspected projects by site visits to locations to identify environmental impact factors.
- Assessed the potential environmental impacts and the necessary adjustment steps should be made for mitigation of damages to human and environment.

Sep. 2007 – Jan, 2008 Director of Laboratories, Nature Iraq Organization – Sulaimani Iraq.

- Designed layout of the water quality laboratory in Sulaymani branch.
- Participated in installation and operation of lab equipment such as UV, GC, FIA, microbiology testing equipment and water quality field instruments.
- Designed lab structure and job description,
- Trained lab staff on equipment operation.
- Edited standard lab testing procedures manual for all water quality and soil analysis.
- Established lab and field requirement control system for organization projects.

Oct, 2006- Jun, 2007 Water Quality Lab Manager – part time job with Kurdistan Technology & Researches Establishment.– Sulaymania

- Trained staff on water quality testing procedures using the latest equipment technologies.
- Supervised research study on different types of bottled water in sulaymania city.
- Translated manuals of new equipment into Arabic language for the staff to use them

Jun, 2005 – March, 2006 : Deputy Director of Business Management services Component – IZDIHAR Project (Iraqi Private Sector Development & Job Generation Project).

- Supervised training programs implementation and development programs for more than 10 business associations members,
- Prepared component work plans strategy & follow up,
- Prepared weekly & monthly reports,
- Managed meetings with private sector organizations,
- Initiated regional out-reach through business associations (Al-Anbar region).

Oct, 2000 - Jun, 2006 : Managing Director, KINDI HOUSE CO.

- Trading in Engineering Lab Testing Equipment, Computer Systems, Electronics, & Security Equipment.

Mar, 1993 – Oct, 2000: University Teacher. Baghdad University**Scientific Achievements**

- Initiative of signing the scientific MOU between Baghdad and Cornell Universities. The MOU is signed by both universities and will take effect early 2010.
- Paper on compositional analysis of date palm biomass- a lab research conducted at NREL with Prof. Bob Baldwin, 2009, under publishing.
- Paper on thermochemical conversion properties of Iraqi date palm biomass, conducted at NREL with Professor Bob Baldwin, 2009, under publishing

- Prepared feasibility study to the Ministry of environment, on plastic recycling projects in Suliamani city-Iraq, 2008.
- Solved the problem of polyester putty gelling during storage by adding a chemical compound in certain portions, ASIA Paints, 1991.
- Participated in preparing feasibility study on synthetic resins production plant to the Ministry of Industries, Baghdad-Iraq, 1986.
- Participated with technical team to solve a production problem of imported thinner and formulated a new formula using local raw materials, MPI- Ministry of Industries, 1985.

Civil Society Participation

- Volunteered to translate a brochure on LanTEEL program at Cornell University English to Arabic for the Iraqi universities and conducted training program demonstrating the program application.
- Volunteered to present several times to the faculty and students of Cornell, school teachers and students of NY State, public library in Ithaca and Alfred University NY, talking about environmental issues, education system and cultural traditions in Iraq.
- Volunteered as programs manager at Together to Protect Human and Environment organization. Supervised training programs, workshops and the billion trees campaign of the UN in Sulaimani in collaborative with other associations and school students, 2008.
- Conducted training programs on business management and capacity building with Negotiation & Strategic Studies organization. 2007.
- Board member of “Arab Network for Women in Science & Technology” organization- Bahrain, 2005.
- Member of Iraqi Engineers Union, 1983.

Training Programs

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| A. Apr. 2009 | : Comprehensive project management workshop, AMA, Arlington VA, USA |
| B. Mar. 2009 | : Sustainability of environment and natural resources, IIE, Denver CO, USA |
| C. Aug, 2005 | : MEET US program - Three weeks training program in business management and leadership – San Diego - USA |
| D. March, 2004 | : One week Business Women Forum, World Bank , Vancouver Canada |
| E. Dec, 1985 | : Two weeks training course in Feasibility Studies.
Ministry of Industry - Baghdad |
| F. Oct, 1984 | : One week training course in "Feasibility Studies". Ministry of Industry-
Baghdad |
| G. Aug, 1984 | : Member of “Industrial Resins Project “committee, prepared full Feasibility
study of the project. Ministry of Industry- Baghdad |