

## Curriculum Vitae



### Mudhafar Kareem Abdullah

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#### Personal information

**Full Name :** Mudhafar Kareem Abdullah  
**Date & Place of Birth:** September -18-1971  
 Iraq  
**Gender:** male  
**Marital Status:** Married, two kids  
**Nationality:** Iraqi  
**Language skills:** Fluent in English & Arabic

**Computer skills:** Microsoft office, SAS programming, AutoCAD, Sigma Plot programming and Response surface methodology (RSM) and optimization.

**Last Position:** Postdoctoral Fellow, Bioengineering Department. University of Missouri, Columbia, USA.

#### Summary of Qualifications

Degree, Major	Institution, Location	Date
Postdoctoral Fellow in Bioengineering	University of Missouri, USA.	2009-2011
Doctor of Philosophy in Agricultural Machinery	University of Baghdad, Iraq.	2006
Master of Science in Agricultural Machinery	University of Mosul, Iraq.	1998
Bachelor of Science in Agricultural Machinery	University of Baghdad, Iraq.	1993

Institution	Title or Position	Date/Duration
University of Missouri, Columbia, USA	Postdoctoral Fellow	2009-2011
University of Baghdad, Iraq	Assistant professor	2006-2009
University of Baghdad, Iraq	Lecturer	2002-2006
Technical University, Iraq	Lecturer	2001-2002
University of Baghdad, Iraq	Assistant lecturer	1999-2001

#### Other Employments

Institution	Title or Position	Date/Duration
University of Baghdad .Iraq	Senior equipments manufacturing	1999
Mechanical manufacturing company. Iraq	Design engineer	1994-1996

#### Project Experience

**Project Title:** Effect of fuel nano-additives on diesel engine emissions regarding to EPA, University of Missouri.USA

**Role:** Researcher

**Year:** 2011

**Project Title:** Assessment of Air dog performance-in-Cummins diesel engine fuel system, University of Missouri.USA

**Role:** Researcher

**Year:** 2011

**Project Title:** Instrumented diesel engine stand for standard diesel engine test. University of Missouri.USA

**Role:** Researcher

**Year:** 2010.

**Project Title:** Test and evaluate of biofuel properties, University of Missouri.USA

**Role:** Researcher

**Year:** 2009

**Project Title:** Ultrasound application on oil extraction from waste materials, University of Missouri.USA

**Role:** Researcher

**Year:** 2009

**Project Title:** Repairing and maintenances of heavy duty equipments, University of Baghdad , Iraq

**Role:** PI

**Year:** 2007 – 2009.

**Project Title:** Repairing and maintenances of University Automobile, University of Baghdad, Iraq

**Role:** Co-PI

**Year:** 2005 – 2007

**Project Title:** Designing and manufacturing of a hydraulic shear device , University of Baghdad, Iraq

**Role:** PI

**Year:** 2005 – 2006

**Project Title:** Designing and manufacturing instrumented for durability measurements. University of Baghdad, Iraq

**Role:** PI

**Year:** 2004 – 2006.

**Project Title:** Designing and manufacturing of a novel cutter. University of Baghdad, Iraq

**Role:** PI

**Year:** 2003– 2005.

**Project Title:** Diagnostic of machinery shot down. University of Baghdad, Iraq

**Role:** PI

**Year:** 2001– 2002.

**Project Title:** Evaluation of Sprinkler irrigation system performance in Iraq. Ministry of Agriculture & University of Baghdad, Iraq

**Role:** PI

**Year:** 2000– 2001

**Subjects taught by him****Date**

1- Internal combustion engines Lab. University of Missouri. USA.	2010-2011
2- Renewable energy Lab. University of Missouri. USA.	2010-2011
3- Internal combustion engines .University of Baghdad. Iraq.	2006-2009
4- Hydraulics equipments. University of Baghdad. Iraq.	2004-2006
5- Internal engines repair, University of Baghdad .Iraq.	2002-2005
6- Metallurgy, University of Baghdad. Iraq.	2007-2009
7- Design of Machines, University of Baghdad. Iraq.	2007-2008
8- Fluids, University of Baghdad. Iraq	2007-2008

**Field of research:**

- 1- Fuel Nano-additives.
- 2- Ultrasound wavelet application.
- 3- Diesel engine emissions.
- 4- Fuel emulsions.
- 5- Optimization of Biofuel production.
- 6- Waste materials management.
- 7- Renewable energy assessment.

**Technical Experiences**

- 1- Supervised of diesel engine test laboratory, University of Missouri, USA.
- 2- Design and built of air dog system of different diesel engines, University of Missouri, USA.
- 3- Diagnostic and repairs of diesel engine troubles. USA
- 4- Effect of Nano-particle additives on diesel fuel performance.USA.
- 5- Electric scanning Microscope (ESM), USA.
- 6- Response Surface Methodology (RSM), USA.
- 7- Diagnostic and repair of heavy hydraulic equipments. Baghdad, Iraq.
- 8- Tractors trouble shot diagnostic, Baghdad, Iraq
- 9- Development of equipments heat treatments , Ministry of Industries, Iraq
- 10- Design and Development of cutting equipments. Ministry of Agriculture. Iraq

**Honors & Awards****Society or Agency****Date**

Patent in hydraulic application	Ministry of High education	2011
Creative award. Dean office	University of Baghdad	2009
Creative award, University President	University of Baghdad	2008
Appreciation of Equipments repair, Baghdad	University of Baghdad	2008
The first rank, PhD student, Baghdad	University of Baghdad	2006
Appreciation of MHES. Baghdad	Ministry of High education	2004

**Post graduate supervisions**

- 1- Effect of tractors vibration on performance of Mechanization, MSc, 2009.Iraq
- 2- Effect of V-groove solar air collector on drying properties. MSc, 2009. Iraq.
- 3- Effects of Cylinder speeds on wheat cleaning and physical properties.MSc, 2008. Iraq.

**Publications**

Abdullah, M and Bulent , Koc. (2011). Exhaust emissions of a diesel engine fueled with water-biodiesel -diesel nanoemulsions ,*ASABE Meeting, Paper NO:1111195. Louisville, Kentucky, USA.*

Abdullah, M and Bulent Koc. (2011). Performance and emissions of a diesel engine fueled with nanoemulsions' *Mid-Central ASABE conference. Missouri. USA.*

Koc, B. M. K. Abdullah., L. Shumacher, and S. Borgelt. (2010). Exhaust Emissions of a 4-Cylinder Diesel Engine Fueled with Biodiesel, Tire Oil and Diesel Fuel Blends. *ASABE Meeting, Paper NO: 1009382, Pittsburgh, Pennsylvania, USA.*

Abdullah, M. and Bulent, K. (2010). Ultrasound Assisted Oil Extraction from Palm Kernels for Biodiesel Production. *ASABE Meeting, Paper NO: 1009535, Pittsburgh, Pennsylvania, USA.*

Abdullah, M and Bulent, Koc.(2010).Two-phase oil extraction from spent coffee grounds for biodiesel production. (2010). *Mid-central ASABE conference, Kansas, USA.*

Effects of hand transmissions on vibration of mechanization unit. (2010). *Iraqi Journal of Engineering Science.11(2),*

Abdullah, M. and B.A.Al-Shamri and S. Abdula sattar. (2010). An evaluation of a locally produced instrument to measure feed pellet durability. *Jordan journal of Agricultural science. Jordan.*

Abdullah, M. and B, A, Al-Shammeri. (2009). Effect of some manufacturing conditions on fish pellet equality. *The Iraq journal of Agricultural science*

Abdullah, M and Ahmed ,A. (2009). The effect of hand transfer vibration on Tractors performance. *The Iraqi Journal of Engineering Science.*

Abdullah. M, Jasim, A, A, and Amara, M.S. (2008). Developing a locally manufactured equipment to measure sheep meat tenderness as correlated with chemical, physical and sensory evaluation. *Alexandria Journal of food science and technology. Egypt*

Abdulrazzak. A, Amara, M, S and M, Abdullah. (2008). Performance evaluation of equipment develops to measure Poultry meat tenderness comparing with chemical, physical and sensing methods. *King Fasil Journal of Science. KAS.*

Abdullah, M, jasim, A and Laith, Akhail. (2008). The efficiency of locally hydraulic pulling system for tractors performance. *MISE Society f Agricultural Engineering, Cairo, Egypt*.

Jasim, A. Amara, M. S.and M. Abdullah. (2007). A shear equipment of developed locally to measure sheep meat tenderness fed on medicinal plants comparing with chemical, physical and sensory methods. *Egyptian Journal of Nutrition and feeds. Egypt*.

Abdullah,M.(2006). Manufacturing and testing of soil Penetrometer device. *The Iraqi Journal of Agricultural Science, 36 (3)*.

Abdullah,M. (2005). Predictions of traction requirement for chisel plow with MF 299 Tractor. *The Iraqi Journal of Science.36 (4)*.

Abdullah, M, Eidam, J, and Hadi, I. (2003). Effect of length of main and lateral tubes of sami-permanent sprinkler system on yield and productivity of corn (*ZEA MAYS L*). *The Iraqi Journal of Agricultural Scinece.34 (6)*.

Abdullah,M, and Eidam, J. (2002).Effect of plant residue and plowing depth mold bard plow performance with Anter 71 Tractor and on some soil physical properties. *The Iraqi Journal of Agricultural Science.23 (2)*.

Abullah,M. and Al-Rubayi, H. (2001).Effect of Plowing system by using different depths and speeds on mechanically weed control. *The Iraqi Journal of Agricultural Science*.

#### Papers under reviewer

Abdullah, M and Bulent Koc .(2011). Formation of Fuel emulsions at different oil phase components.

Abdullah,M and Bulent Koc.(2011). Kinetic of Black seed extraction with ultrasound -Assistant.

Abdullah , M and Bulent Koc .(2011). Development of an instrumented-diesel engine test stand for research and education.

#### Book :

Koc, Bulent, M, Abdullah and M, Fereidouni. (2011). Soybeans processing for biodiesel production, *Book chapter (Soybeans Applications &Technology), ISBN 978-953-307-207-4InTech.University of Missouri, USA*.

Patent	Date
Design and manufacturing of a hydraulic instrument of meat tenderness measurement., Iraq	2011

Workshops	Date
Renewable energy workshop, University of Missouri, USA.	2011
Postdoctoral Fellow workshop, University of Missouri, USA.	2011
Lab View workshop, University of Missouri, USA.	2010
Diesel engine stand workshop, University of Missouri.USA.	2009

Memberships	Date
1. Missouri Postdoctoral association	2010
2. American society of Agricultural and biological engineer	2006
3. Iraqi society of teaching staff	1999
4. Iraqi society of Agricultural engineering	1994

International Conferences	Date
International ASABE conference, Kentucky, USA.	2011
Mid-central conference of ASABE, Missouri. USA.	2011
International ASABE conference, Pennsylvania. USA.	2010
Science day, Poster competitions, UMC, USA	2010
Mid-central conference of ASABE, Kansas, USA.	2009
International conference of Food Technology, Egypt.	2008
International conference of Nutrition , Egypt	2006

### References

1- Dr. Bulent Koc, Assistant professor, Bioengineering Department. University of Missouri, Columbia, 65211, MO, USA.

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2- Leon G. Schumacher, Professor, ASM program chair, Bioengineering Department. University of Missouri, Columbia, 65211, MO, USA.

[schumacherl@missouri.edu](mailto:schumacherl@missouri.edu)

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3- Tinglu Tan. Professor, Bioengineering chair, Bioengineering Department. University of Missouri, Columbia, 65211, MO, USA.

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