Engr. Dr. Muhammad Tuseef Asghar

(Agricultural / Food Process Engineer) (PhD)



Currently	Assistant Professor, Department of Food Engineering, University of Agriculture, Faisalabad	
	CTA, TruE-CaP Seasonings (TruE-CaPS)	
Personal Information		
First name(s) / Surname(s)	Dr. Muhammad Tuseef / Asghar	
Address	Chak # 195 R-B Faisalabad	
Passport No.	BC1829654	
Validity	29-10-2024	
Nationality	Pakistani	
Mobile	03346512185, 03486412195	
E-mail(s)	mtuseef@uaf.edu.pk (official) mtuseef195@gmail.com (personal)	
Nationality	Pakistani	
Date of birth	13 December 1986	
Gender	Male	

Distinctions

- University Merit Scholarship Holder, MSc (Hons) Agri. Engineering
- Al-Ghazi Merit Scholarship Holder, MSc (Hons) Agri. Engineering
- University Merit Scholarship Holder Throughout the Degree
- 1st position holder in Expo held in the department of FMP, UAF for designing and manufacturing HAND CRANKING RICE TRANSPLANTER, (2009)
- President Tutorial Group AET-11 during the session of 2005-2006

Projects/Startups

- TruECaP Seasonings (SECP Registered Company) launched
- The company won Funding of PKR 1.0Million From the Pakistan Engineering Council (PEC)
- Secured PKR 0.8 Million from Investor

Publications

Asghar MT, Yusof YA, Mokhtar MN, Yaacob ME, Ghazali HM, Chang LS, et al. (2021) A Review of Nutritional Facts, Production, Availability and Future Aspects of Coconut Palm Sugar. J Nutr Food Sci. 11:3.

Asghar, M. T., Yusof, Y. A., Mokhtar, M. N., Ya'acob, M. E., Mohd. Ghazali, H., Chang, L. S., & Manaf, Y. N. (2020). Coconut (Cocos nucifera L.) sap as a potential source of sugar: Antioxidant and nutritional properties. Food Science & Nutrition, 8(4), 1777-1787. https://doi.org/10.1002/fsn3.1191

Asghar, M. T., Yusof, Y. A., Noriznan, M., Yaacob, M. E., Mohd Ghazali, H., Chang, L. S., & Manaf, Y. N. (2020). Effect of processing method on vitamin profile, antioxidant properties and total phenolic content of coconut (Cocos nucifera L.) sugar syrup. International Journal of Food Science & Technology. 55: 2762-2770. https://doi.org/10.1111/ijfs.14529

Asghar, M. T., Yusof, Y. A., Mokhtar, M. N., Yaacob, M. E., Ghazali, H. M., Varith, J., ... & Manaf, Y. N. (2020). Processing of coconut sap into sugar syrup using rotary evaporation, microwave, and open-heat evaporation techniques. Journal of the Science of Food and Agriculture. 100: 4012-4019. https://doi.org/10.1002/jsfa.10446

Asghar, M. T., Ghafoor, A., Munir, A., Iqbal, M., & Ahmad, M. (2014). Design modification and field testing of groundnut digger. Asian Journal of Science and Technology, 5(7), 389-394. Available Online at: http://www.journalajst.com

Khan, M. A., Shakoor, S., Ameer, K., Farooqi, M. A., Rohi, M., Saeed, M., **Asghar, M. T.**, Irshad, M. B., Waseem, M., Tanweer, S., Ali, U., & Ahmed, I. A. M. (**2023**). Effects of dehydrated moringa (Moringa oleifera) leaf powder supplementation on physicochemical, antioxidant, mineral, and sensory properties of whole wheat flour leavened bread. Journal of Food Quality, 2023, 1-13. https://doi.org/10.1155/2023/4473000

Shakoor, S., Saleem, S., Raheem, I. U., Mukhtar, A., Asghar, M. T., & Azmat, M. A. (2025). Exploring various preservative methods in extending the shelf-life of sugarcane juice. Journal of Food Science and Technology, 1-11. https://doi.org/10.1007/s13197-025-06252-9

Book Chapter

Muhammad T. Asghar, Yus A. Yusof, Mohd N. Mokhtar, Mohammad E. Yaacob, Hasanah M. Ghazali, Yanty N. Manaf and Lee S. Chapter 9. Production and Application of Coconut Palm Sugar Nova Science Publishers, Inc. (USA). Available Online at: https://novapublishers.com/shop/the-coconut-palm-cocos-nucifera-production-cultivation-and-uses/

Products Developed		
Sr. No.	Product Name	Status
1.	Dehydrated Onion Powder	Commercialized (At TruECaPS)
2.	Dehydrated Garlic Powder	Commercialized (At TruECaPS)
3.	Dehydrated Ginger Powder	Commercialized (At TruECaPS)
4.	Dehydrated Green Chili Powder	Commercialized (At TruECaPS)
5.	Dehydrated Tomato Powder	Commercialized (At TruECaPS)
6.	Dehydrated Mix Spice (complete & Instant Solution)	Commercialized (At TruECaPS)
7.	Dehydrated Mango Powder	Commercialized (At TruECaPS)
8.	Gluten-Free Biscuits	Commercialized (At Glufera Bw)
9.	Baby Food	Commercialized (At Organi Lhr)
10.	Mulberry Sugar Syrup	Ready for Commercialization
11.	Low-Temperature Orange Concentrate	Ready for Commercialization
12.	Flaxseed & Date Fortified Cake	Ready for Commercialization
13.	Mango Kernel Starch Edible Coating	Validation in progress
14.	Aloe-vera Gel Edible Coating	Validation in progress
15.	Mango-Cinnamon Leather	Shelf-life study in progress
16.	Strawberry-Apple Leather	Shelf-life study in progress
Student Supervision		

Student Supervision MSc. (Hons.) with Thesis

Sr. No.	Name	Title	Status
1.	Mubashar Mubeen 2016-ag-6304	Combined Effect of Aleo Vera Gel and Calcium Chloride Coating on The Shelf Life of Ber (Ziziphus mauritiana L.)	Graduated; 2023
2.	Aniq Mushtaq 2016-ag-8235	Preparation Of Orange Juice Concentrate by Rotary Evaporation Technique	Graduated; 2023
3.	Hina Gul 2016-ag-8273	Effect Of Mango Kernel Starch on Shelf Life of Banana by Controlling Ripening Through Novel Edible Coating	Graduated; 2023
4.	Muzammal Siddique 2020-ag-1634	Processing of Mulberry Juice into Sugar Syrup by Using Different Evaporation Techniques and Its Evaluation During Storage	Graduated; 2023
5.	Sehar Mehmood 2017-ag-8736	Fortification of Mango Leather with Cinnamon	Graduated; 2023

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6.	Ghanwa Javed 2017-ag-8723	Effect of Psyllium Husk on Physical Properties a Bread	and Composition of Banana Graduated; 2023
7.	Anzala Muqaddas 2017-ag-8753	Formulation And Evaluation of Gluten-Free Mai	ize and Sweet Potato Biscuits. Graduated; 2023
8.	Jarrar Haider 2017-ag-8826	Comparative Study for Physico-Chemical Chara	acteristics of Plum and Peach Graduated; 2023
9.	Ayesha Saddiqa 2021-ag-2383	Fortification of Cake with Date Pulp and Roaste	ed Flaxseed Graduated; 2023
10.	Hafiz Muhammad Bilal 2017-ag-8892	Production of Mixed Fruit Drink Using (Grapefru Oranges) Citrus Fruits	
11.	Amina Shahid 2021-ag-2381	Development And Characterization of Apple an	Graduated:
12.	Malaika Zahakh 2018-ag-8635	Seed-Embedded Biodegradable Plastic: A Step	Graduated:
13.	Rabia Javed 2018-ag-8735	Fortification of Mulberry Fruit Leather with Card	Graduated:
	3	Work experience	•
		. 23 August 2024 to date (Assistant Professor,	, Department of Food Engineering,
		University of Agriculture, Faisalabad)	
4 D-4		. 10 September 2013 to 23 August 2024; (Lectu	rer Agri. Engineering; UAF Sub-Campus
1. Dat	les	Burewala as Regular Faculty member)	i Francisco FMD: HAF Main Commun
		 22 May 2012 to 9 September 2013 (Lecturer Agr Faisalabad as Faculty member- Adhoc) 	i. Engineering-FMP; OAF Main Campus
		Faisalabad as Faculty member- Adnocy	
Occupat	ion or position held	sistant Professor (Food Engineering UAF)	
		Teaching & Research (New Food Products Deve	elopment and Commercialization)
		> Teaching the following courses	
	tivities and	Post-Harvest Engineering Theory of Machines	
responsi	ibilities	 Theory of Machines Food Processing Engineering 	
		Unit Operations in Food Engineering	
		5. Food Chemistry	
		cturer / Workshop in-charge	
		Teaching & Research	
		> Teaching the following courses	
		Internal combustion engine and tractors Farm mechanization	
		 Farm mechanization Food processing engineering 	
		Process engineering	
Main act	tivities and	10. Energy Resources and Utilization	
responsi	ibilities	Additional Duty since 25 February 2013 till 10-09-2013)	
		orkshop in-charge	
		> Administration	
		Record keeping of lab equipment/materials.Lab staff attendance	
		Leave records of the lab staff	
		Issuance of Tractors and implements.	
		 Repair and maintenance arrangements of tract 	tors and implements.
		 Repair and maintenance of hydraulic control en 	
		and Director Otodontal Afficients (O. L. O. a	A
		eputy Director Students' Affairs (Sub-Campus UAF)
		-Charge all campus lab equipment	

	Department of Farm Machinery and Power
Name and address of employer	University of Agriculture, Faisalabad (Pakistan)
Type of business or sector	Education and Training
4. Dates	05 March 2012 - 22 May 2012
Occupation or position held	Principal
Main activities and responsibilities	 Administration Record keeping of lab equipment/materials. Lab staff attendance Leave records of lab staff Budget management Correspondence with head office LHR Worked in following trades present in VTI. 1. Computer Applications and Office Professionals 2. Dress designing and boutique. 3. Beautician and skin care
Name and address of employer	Punjab Vocational Training Council PVTC Head Office Lahore, (Pakistan)
Type of business or sector	Training and Placement of students in their respective trades
5. Dates	15 June 2011 to 02 December 2011
Occupation or position held	Engineer Agri. Machinery/ In-charge Mint Rice Research Centre To decide all field operations with the help of the Director, HR
Main activities and responsibilities	 To find out and hire labor at field level. To manage human force working permanently at site To manage/ Repair machinery available at site and hire machinery. To prepare performance reports of field staff & crop stages To manage all the input required for good production at the proper time. To take care of crop health by using different chemicals and required machinery. To manage crop outputs (safe storage and sale)
Name and address of employer	Mint Consulting Group 49- Bridge Colony Lahore Cantt, Lahore (Pakistan)
Type of business or sector	Agri. Business and raising of different crops majorly rice at Ethiopia
6. Dates	27 February 2011 to 14 June 2011
Occupation or position held	Farm Machinery Engineer
Main activities and responsibilities	 Administration Designing of Agri. Machinery Manufacturing of Agri. Machinery Repair and maintenance or Agri. Machinery Following machinery was under consideration. 1. Wheat threshers 2. Rice threshers 3. Gram thresher 4. Wheat straw choppers 5. Seed drills 6. Cultivators 7. Rotavators 8. Pneumatic drills 9. Maize Sheller 10. Potato planters
Name and address of employer	Super Fine Zarai Industries Samundari Road Faisalabad (Pakistan)
Type of business or sector	Agri. Machinery manufacturing and sales
7. DDates	26 February 2010 to 25 February, 2011

	Notice II to a Lin December (AUD)
Occupation or position held	National Internship Program (NIP)
Market of Warrant	> Administration Assistant
Main activities and responsibilities	 Data entry DCO, Office Web Site Updating
responsibilities	Account handling of other internees
	7 Noodult Hallalling of Other Interneces
Name and address of employer	Office of DCO. Faisalabad, Government of Pakistan
Type of business or sector	Agri. Machinery manufacturing and sales
_	Educational Details
1. Dates	01 April 2016 to 19 May 2022
Title of qualification awarded	PhD Food Process Engineering, CGPA 4.00/4.00
Research and Thesis Title	PROCESSING OF COCONUT SAP INTO SYRUP AND GRANULAR SUGAR USING DIFFERENT EVAPORATION TECHNIQUES FOR ECONOMICAL PRODUCTION
2. Dates	15 September 2009 - 16 January 2012
Title of qualification awarded	MSc. (HONS) Agricultural Engineering, CGPA 3.59/4.00 & (75.84%)
Research and Thesis Title	Modification and Testing of AMRI Groundnut Digger/Shaker
	AMPLEASE IN THE STATE OF THE ST
	AMRI groundnut digger/shaker was improved reasonably after modification.
	 AMRI groundnut digger/ shaker became more fuel-efficient resulting in energy saving. Digging efficiency was 89.31% at 75% maturity level.
Research achievements	Field efficiency was 89.31% at 1.85km/hr
	Recoverable loss was 5.14 % at 1.85km/hr and
	Irrecoverable loss was 5.5 5 at 1.85km/hr.
Principal subjects / occupational	Farm machinery and Environment, Grain Preservation and Processing, Advanced Power and Machinery,
skills covered	Hydraulic Control systems, Theory of Models-II, Soil Physics, High Level Programing-I, Operations Research,
Name and type of organization	Experimental Statistics University of Agriculture (Agriculture)
providing education and training	Faisalabad (Pakistan)
Level in national or international	2nd
classification	
3. Dates	15 September 2005 - 11 July 2009
Title of qualification awarded	B.Sc. Agricultural Engineering, CGPA 3.49/4.00 & (74.3%)
	Farm Machinery and Power:
	Machine Design, Theory of Design and Structure, Energy resource and utilization, I.C Engine & Tractor, Boiler Engineering & Power Plants, Thermodynamics, Instrumentation & Mechatronics, Farm Machinery,
	Design of Agricultural Machinery
	Irrigation and Drainage:
Principal subjects / occupational	Engineering mechanics & dynamics, Irrigation Engineering, Drainage Engineering, Open Channel
skills covered	Hydraulics, Water management, Soil and Water Conservation Engineering, Pumps and Tube-wells, GIS
	Application in Water Resources Engineering, Soil mechanics, Fundamental of Fluid Mechanics, Water
	Quality Engineering, Surface & Ground Water Hydrology. Structure and Environmental Engineering:
	Surveying & Levelling, Theory of Design and Structure, Mechanics of engineering materials, Environmental
	Engineering, Industrial Pollution and its control, Bio Solid Management, Farm Structure
Name and type of organization	Hairwaysity of Assigniture Foiselehad (Dekisten)
providing education and training	University of Agriculture, Faisalabad (Pakistan)
Level in national or international	2nd
classification	
4. Dates	01 September 2003- 20 August, 2005
Title of qualification awarded Principal subjects / occupational	Higher Secondary School Certificate, Marks 802/1100 & (72.91%) Pre-Engineering
r micipai subjects / occupational	rie-Liigineering

skills covered	Physics, chemistry, and Mathematics	
Name and type of organization	Govt. Islamia College, Faisalabad	
providing education and training	B.I.S.E Faisalabad.	
5. Dates	01 April 2000 – 15 June, 2002	
Title of qualification awarded	Secondary School Certificate, Marks 657/850 & (77.29%)	
Principal subjects / occupational	Science	
skills covered	Physics, chemistry, and Mathematics	
Name and type of organization	Govt. High School Chak# 195 R-B, Faisalabad	
providing education and training	B.I.S.E Faisalabad.	
	>	
	Pakistan Engineering Counsel Registration No. AGRI/2964	
Membership	Member, Society of Agricultural Engineering of PAKISTAN	
	Member, Society of Agricultural Engineering UAF	