



**TAGEM**  
R&D AND INNOVATION

BLACK SEA AGRICULTURAL RESEARCH  
INSTITUTE/ SAMSUN

## BERRAK MEMİŞ, M.Sc.

### Chemical Engineer

#### EDUCATION

- M.Sc** 2016-2018 The Pennsylvania State University Agricultural and Biological
  - Bachelor's Degree** 2007-20011 Ankara University Chemical Engineering
- LANGUAGE** English YDS 97,5 / TOEFL 96

#### ABOUT ME

She was born in Ankara in 1988. In 2011, she graduated from Ankara University, Faculty of Engineering, Department of Chemical Engineering. She completed her master's degree at The Pennsylvania State University in 2018. Between 2018-2023 she worked as a Chemical Engineer at the Samsun Black Sea Agricultural Research Institute, Energy Agriculture Center. As of 2023, she works at the Plant Protection Central Research Institute.


#### CAREER

- 2023 - Researcher, Plant Protection Central Research Institute- Ankara
- 2018- 2023 Researcher - Black Sea Agricultural Research Institute - Samsun
- 2013-2015 Research Asistant – Baskent University, Biomedical Engineering - Ankara

#### CONTACT

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▪ **PROJECTS**

▪ **Ongoing Projects**

1. Determination of Sunflower Genotypes Suitable for the Middle Black Sea Transition Zone - TAGEM- Researcher (Ongoing)
2. Sustainable Biomass Use Project to Support the Development of the Turkish Economy on the Path to Green Growth - GEF- Project Expert (Ongoing)
3. Investigation of the Use of Camelina (Camelina sativa) as a Raw Material Source for the Production of Green Diesel, Bioethanol, Pellet and Activated Carbon - TAGEM- Researcher (Ongoing)
4. Determination of the Effect of Storage Conditions on the Quality of Pellets Produced from Agricultural Residues - TAGEM- Researcher (Ongoing)
5. Characterization of Biochar Produced from Some Agricultural Residues and Its Effects on Soil Quality - TAGEM- Researcher (Ongoing)
6. Determination of the Optimum Irrigation Program for Pear Cultivation in Çarşamba Plain - TAGEM- Researcher (Ongoing)



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### ▪ **PUBLICATIONS**

#### ▪ **INTERNATIONAL ARTICLES AND PAPERS**

##### ▪ **Articles Published in International Journals**

1. Ciolkosz, D., Memis, B., & Richard, T. L. (2022). Impact of Torrefaction and Alkali Pretreatment on Glucose Production From Wheat Straw. *Journal of the ASABE*, 65(6), 1201-1209.
2. Tripathi, J., Richard, T. L., Memis, B., Demirci, A., & Ciolkosz, D. (2022). Interactions of Torrefaction and Alkaline Pretreatment with Respect to Glucose Yield of Hydrolyzed Wheat Straw. *Biomass*, 2(4), 264-278.

##### ▪ **International Papers, Seminars, etc.**

1. Memiş, B. & Ciolkosz, E.D. 2018. Impact of Alkaline Pretreatment and Torrefaction On Glucose Production from Wheat Straw. 40th Symposium on Biotechnology for Fuels and Chemicals. 29 April, 2018- 02 May, 2018, Clearwater Beach, Florida, USA (Poster Presentation).



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▪ **OTHER PUBLICATIONS**

▪ **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

1. Master Thesis: Impact of Alkaline Pretreatment and Torrefaction On Glucose Production from Wheat Straw (Master Thesis, The Pennsylvania State University, Agricultural and Biological Engineering, 2018)



## BERRAK MEMİŞ, M.Sc. Chemical Engineer



### ▪ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

#### ▪ Editor

Bioenergy Studies – Managing Editor (2020-)

#### ▪ Training

<u>Name of the training</u>	<u>Start date</u>	<u>End date</u>	<u>Training Unit</u>
TS EN ISO/IEC 17025:2017 General Requirements Standard Training for the Competence of Experiment and Calibration Laboratories	15.06.2020	16.06.2020	RAN Kalite
TS EN ISO/IEC17025:2017 Internal Auditor Training	17.06.2020	17.06.2020	RAN Kalite
Measurement Uncertainty Training for Experimental Laboratories & Method Validation/Verification Training for Experimental Laboratories	18.06.2020	18.06.2020	RAN Kalite
TS EN ISO/IEC 17025:2017 Risk Analysis Training	19.06.2020	19.06.2020	RAN Kalite
Basic Patent Training	03.12.2020	03.12.2020	Türk Patent ve Marka Kurumu
Technical Training of Top Level Biomass Experts of Turkey	22.02.2021	25.02.2021	Ostim Enerjik

#### ▪ Symposium

3<sup>rd</sup> Bioenergy Studies Symposium – 20-21 May 2021

4<sup>th</sup> Bioenergy Studies Symposium – 26-27 May 2022