

Post-doctoral fellow in Modeling Impact of Feed Additives
using Life Cycle Assessment approaches
University of California, Davis

Direct Link: <https://www.AcademicKeys.com/r?job=135496>

Downloaded On: Feb. 26, 2020 5:26pm

Posted Dec. 23, 2019, set to expire Apr. 21, 2020

Job Title	Post-doctoral fellow in Modeling Impact of Feed Additives using Life Cycle Assessment approaches
Department	Animal Science
Institution	University of California, Davis Davis, California
Date Posted	Dec. 23, 2019
Application Deadline	open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Dairy Science Biosystems Engineering Agricultural - General
Apply By Email	ekebreab@ucdavis.edu

Job Description

Project Summary: The State of California recently launched the Short-Lived Climate Pollutant reduction strategy (SB 1383) with the objective of decreasing statewide CH₄ emissions by 40% by 2030 from 2013 levels. About 52% of CH₄ emissions in the State are attributed to enteric fermentation and manure management; therefore, achieving significant CH₄ emission reduction from these sources will be critical to meeting SB1383 goals. Effective enteric emission reduction technologies that promote animal and public health and industry/consumer acceptance may be applicable to millions of beef and dairy cattle in the State and the country in general. This study will evaluate additives for their impact on the performance of animals (both quality and quantity of products) and animal welfare implications if they were to be introduced. The additives will have associated emissions in their production. Therefore, a LCA methodology will be implemented in order to quantify the net reduction of emissions when they are implemented at the field level. Life cycle inventory of crop production is already available and will be used in conjunction with either newly developed LCA or modify existing LCA in the literature. The project will categorize the additives based on their effectiveness and come up with a list of priorities to

Post-doctoral fellow in Modeling Impact of Feed Additives
using Life Cycle Assessment approaches
University of California, Davis

Direct Link: <https://www.AcademicKeys.com/r?job=135496>

Downloaded On: Feb. 26, 2020 5:26pm

Posted Dec. 23, 2019, set to expire Apr. 21, 2020

address knowledge gap and inform the State on priorities for further work. The LCA for California dairies has been completed. This study will build on that and expand it to the whole US.

Main duties and responsibilities: The main responsibilities and duties to be undertaken will be: ? Data collection of impact of feed additives from the literature; ? Meta-analysis of impact of feed on methane emissions; ? Life cycle analysis of dairy systems in the US ? Life cycle analysis of selected feed additives; ? Dissemination of results through peer-reviewed publications, project reports and conference presentations. ? Other duties as defined by the principal investigator. Skills/Qualifications: Quantitative (systems) modeling, IT Skills, Statistics/Mathematics training, Life cycle assessment experience, Ruminant nutrition (desirable), Capable of conducting unsupervised work, and Initiative For more information or to submit an application (completed resume and cover letter) contact: Professor Ermias Kebreab , University of California, Davis

EEO/AA Policy

The university of California Davis is an equal opportunity employer.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Ermias Kebreab
Animal Science
University of California, Davis
2111 Meyer Hall
UC Davis
Davis, CA 95616

Phone Number 5303049700
Contact E-mail ekebreab@ucdavis.edu