

SEABORN BERNARD CARTER

✉ sbcarter@pvamu.edu

EDUCATION

Texas A&M University, College Station, TX, December 2018

Masters of Science Agricultural Systems Management

Specialization: Alternative Renewable Energy

Florida A&M University, Tallahassee, FL August 2008

Masters of Science Industrial Engineering

Specialization: Alternative Renewable Energy

University of Kentucky, Lexington, KY May 2000

Masters of Science Agricultural Engineering

Specialization: Fermentation & Enzyme Production

Oklahoma State University, Stillwater, OK December 1996

Bachelors of Science Agricultural Engineering

Specialization: Bioprocess and Food Engineering,

PROFESSIONAL EXPERIENCE

Adjunct Instructor, Mechanical Engineering, Prairie View A&M University, TX 2019-Present

Engineering Course Development Analyst, TAMU, Texas A&M Engineering, TX 2017-2018

GANT, TAMU, Public Partnership and Outreach Office of Provost, TX 2014-2015

Hispanic Leaders in Agriculture/Environment Cohort 12, TAMU, College of Ag and Life Sciences, TX 2009-2012

USDA National Needs Fellow, TAMU, College of Ag and Life Sciences, TX 2009-2012

Tutoring Lab Manager, FAMU-FSU College of Engineering, FL 2008-2009

Distance Learning Technician, FAMU-FSU College of Engineering, FL 2007-2009

Facilitate online class delivery and computer trouble-shooting for faculty and students

Energy Research Consortium Member, FAMU University, Tallahassee, FL 2007-2009

Campus-wide effort to develop collaboration opportunities for alternative energy work

Receiving/Shipping Manager, Lowe's, Tallahassee, FL 2005-2006

Supervised shipment/receipt of paint, chemical and solar treatment products

Instructor, Florida A & M University, Tallahassee, FL 2000-2004

Fermentation Technician, Altech Biotechnology Center, Nicholasville, KY 1999-2000

Graduate Research Assistant, University of Kentucky, Lexington, KY 1997-1999

Research Scholar, National Science Foundation, Oklahoma State University Summer 1995

Undergraduate Researcher, Cornell University, Ithaca, New York Summer 1994

Engineering Intern, Amoco Production Company (BP Oil), Denver, Colorado Summer 1993

Supervised economic evaluation & installation crews for petroleum recovery operations

PROFESSIONAL EXPERIENCE DETAILS

Engineering Course Development Analyst

Performed statistical analysis on first year engineering pilot course development data

STEM Program Manager

Conceptualized and wrote two grants for funding of summer camp programs

Responsible for all student recruitment and daily program operations

Tutoring Lab Manager

FAMU-FSU College of Engineering

Marketing Manager for the NSF funded college wide tutoring campaign

Supervisor and trainer for 12 undergraduate and graduate students to perform tutoring services

Program Director for 6-12 grade college of engineering focused summer camp

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Distance Learning Technician

FAMU-FSU College of Engineering

Facilitated videoconferencing, online class delivery and computer trouble-shooting for faculty and students. Facilitated develop and delivery of digital media content to engineering course instruction for 10+ professors

Instructor

Florida A & M University

Taught courses and laboratory related to the Biological and Agricultural Engineering Discipline

Graduate Assistant Non-Teaching

Texas A & M University

facilitated program goals; coordinated diversity program events such as conferences, seminars, lectures, meetings and workshops; responded to inquiries regarding program offerings; coordinated diversity and outreach program communications and marketing; compiled and analyzed diversity program statistics; coordinated maintenance of diversity and outreach program records and databases; evaluated current diversity programs against program goals and objectives. Conducted solid state fermentation research for the Biosystems Engineering Department

Fermentation Technician

Maintained and repaired mechanical equipment use for producing value added products from liquid fermentation processing tanks.

Assisted with facilitating student guest tours.

Energy Research Consortium

Assisted with College-wide effort to develop collaboration opportunities for alternative energy network

Graduate Assistant Non-Teaching (GANT)

Facilitated program goals; coordinated diversity program events such as conferences, seminars, lectures, meetings and workshops; responded to inquiries regarding program offerings; coordinated diversity and outreach program communications and marketing; compiled and analyzed diversity program statistics; coordinated maintenance of diversity and outreach program records and databases; evaluated current diversity programs against program goals and objectives. Conceptualized and co-wrote grants for funding of STEM summer camp programs focused on experiential learning in alternative energy.

RESEARCH PUBLICATION DETAILS

1. Carter, Seaborn Bernard. *Quantification of biomass and phytase production using solid-state fermentation of Aspergillus niger on wheat bran*. Ths. University of Kentucky, 2000.
2. Carter, Seaborn B., Sue E. Nokes, and Czarena L. Crofcheck. "The influence of environmental temperature and substrate initial moisture content on *Aspergillus niger* growth and phytase production in solid-state cultivation." *Transactions of the ASAE* 47.3 (2004): 945.
3. Carter, Seaborn Bernard. *Investigation of Chemical Conductivity and Ph of a Chlorophyll-based Solar Cell Device Toward an Alternative Renewable Energy System*. Ths. Florida A & M University, 2008.
4. Carter, Seaborn B., and Sandun D. Fernando. "Solvent Phase Algal Migration (SPAM) Process: A Technique for Dewatering Microalgae." 2013 Kansas City, Missouri, July 21-July 24, 2013. American Society of Agricultural and Biological Engineers, 2013.
5. Carter, Seaborn, and Sandun Fernando. "An Organic Solvent and Flocculant Based System for Chemical Dewatering of Algae." *Transactions of the ASABE* 59.3 (2016): 1015-1021.
6. Choi, Julius, Hyungseok Nam, Seaborn Carter, and Sergio C. Capareda. "Tuning the physicochemical properties of biochar derived from *Ashe juniper* by vacuum pressure and temperature." *Journal of Environmental Chemical Engineering* 5, no. 4 (2017): 3649-3655.