

Spring Engineering Fundamentals recruitment brings students to Biosystems

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Sophomore Stephanie Kerrigan attended the recruitment drive to help bring students to Biosystems engineering.

Each semester, Engineering Fundamentals invites representatives from each engineering college to come recruit prospective students to their curriculum.

These events allow students to get a better understanding for each of the separate engineering disciplines so they can make a more informed decision about what path they will choose.

Sophomore, Alysse Ness said about 150 freshmen engineering students were in attendance.

Julie Werner and Dr. Paul Ayers spearheaded the recruitment for

biosystems engineering and Dr. Ayers brought his kayaks and snorkel equipment to spark interest in new students.

"I think the recruitment day is important because it gives first-year students an opportunity to explore the various engineering disciplines UT has to offer. They can interact with professors and upperclassmen in each department and discover what type of engineering truly interests them," said Alysse Ness.

The event was held in Estabrook Hall on Monday February the 20th.

Please submit items
 to Rob Baldus
rbaldus@utk.edu

BESS NEWS is issued on
 1st & 3rd Mondays of each
 month.

Archived issues post to our
 departmental website.

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 BESS**
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THE UNIVERSITY of
TENNESSEE **UT**
 INSTITUTE of
 AGRICULTURE

UTIA investigates using native grasses as partime forage



The green movement includes producing biofuels as a way to help the environment. But some consumers are concerned that growing crops for ethanol will mean a decreased food supply and higher prices at the grocery store.

The University of Tennessee Institute of Agriculture is looking for ways to compromise between the different land uses.

One way currently being investigated allows the cows to forage on native grasses like swithgrass during the summer months when traditional Tennessee forages do poorly. Towards the end of the summer, the cows would be moved to other feed supplies so the grasses could get enough time to grow for a biomass harvest.

The UTIA study is looking at the health of Holstein and Jersey heifers that are foraging on native grasses to insure they remain in good shape and don't endanger the well being of their offspring.

ASABE Lawnmower cleanup event

• 3/1-3/7 email [Erick Foster](#) for more information

Third Creek river clean up

• 3/10 9:00 AM to 3:00 PM at Tyson Park

Hill Lecture on Science, Society, and the Mass Media

• 3/13 8:00 PM in the UC

Spring Break

• 3/16

BESS Research Symposium

• 4/17 3:30 PM Hollingsworth Auditorium

BESS Awards Banquet

• 4/17 6:00 PM in Hollingsworth Auditorium

Research Opportunity

Applying Whole Effluent Toxicity Testing to Airport Deicing Runoff

Posted Date: 2/14/2012

Project Data	
Funds:	\$350,000
Contract Time:	15 months
<i>(includes 2 weeks for ACRP review and approval of the research approach to evaluate WET testing sampling, 1 month for ACRP review and approval of the interim report, 2 weeks for review and approval of the research approach to identify measures for improving WET testing procedures at airports, and 3 months for ACRP review and for contractor revision of the final report)</i>	
Authorization to Begin Work:	7/12/2012 – estimated
Staff Responsibility:	Joseph D. Navarrete Phone: 202/334-1649 Email: jnavarrete@nas.edu
RFP Close Date:	4/3/2012
Fiscal Year:	2012

BACKGROUND

Whole Effluent Toxicity (WET) refers to the aggregate effect to aquatic organisms from all pollutants contained in a facility's wastewater. WET tests measure wastewater's effect on specific test organisms' ability to survive, grow, and reproduce. The WET test methodology consists of exposing living organisms, such as water fleas (*Ceriodaphnia dubia*) and fathead minnows (*Pimephales promelas*) to various concentrations of a sample facility's wastewater effluent stream. WET test results are used by National Pollutant Discharge Elimination System (NPDES) permitting authorities to determine whether a facility's permit will need to include specific WET-related requirements.

The U.S. Environmental Protection Agency (EPA) and various state permitting authorities have required some airports to conduct WET testing of stormwater runoff from portions of the airport where pavement and aircraft deicing occurs to determine if additional sampling or corrective actions will be required. However, due to the episodic nature of airport stormwater deicing discharges, the potential for multiple discharge locations, variations in the size and flow of receiving water bodies, the exposure of organisms to varying deicing concentrations, the effect of seasonality, and other issues, WET testing at airports faces unique challenges.

Research is needed to produce guidance on how to appropriately conduct and apply WET testing for evaluating the effects of airport stormwater deicing discharges.

OBJECTIVES

The objectives of this research are to: (1) describe how WET testing is used at airports for monitoring stormwater deicing discharges, including WET testing strengths and weaknesses; (2) evaluate whether current WET sampling protocols accurately reflect the toxicity of episodic airport stormwater discharges containing deicing fluids; (3) develop approaches for accurately applying the results of laboratory WET testing of episodic airport stormwater discharges containing deicing fluids to determine if in situ water quality impacts are occurring or will occur; and (4) provide guidance on the use of WET testing at airports for stormwater deicing discharges.

Looking for a great summer job and adventure this summer? Camp Ozark will be on campus Monday through Wednesday of next week. We are a Christian sports camp for kids ages 7-17. Camp Ozark is located in Arkansas among many beautiful lakes and mountains. We have several different opportunities consisting of counselors, media crew, lake crew, crafts assistant, wranglers, work crew, etc. We also offer internships and various positions designed for specific sports. To sign up for an interview, or find out more, visit www.campoazark.com. You can also email Amanda@campoazark.com with any questions.



Funding Opportunity

Request for Proposals

The Howard H. Baker Jr. Center for Public Policy at the University of Tennessee is pleased to announce this request for proposals. Submitted research proposals must focus on energy, environmental or global security policy, or Baker studies (including governance, leadership and archival inquiries). Funded research is expected to contribute to the academic research agenda of the Baker Center and faculty/academic units across the university community.

Strong preference will be given to proposals that

- Include an interdisciplinary/interdepartmental/inter-institutional focus;
- Support research that can lead to future external funding streams;
- Produce tangible results in the form of white papers, academic papers, books, and conference events;
- Engage graduate and/or undergraduate students;
- Focus on issues of international and/or national prominence; and
- Leverage other programmatic or institutional support.

Examples of potentially-fundable projects include laboratory/field experiments, data acquisition and analysis, and general theoretical or empirical research in the areas denoted above. Funding cannot directly be used for proposal writing to external agencies or funders. All supported research must recognize, as possible and appropriate, the role of the Baker Center in providing funding support.

Proposal submission requirements include

- A brief *research synopsis* of ten pages or less that notes the principal investigators, outlines the proposed program of work and its importance, defines strategies for research dissemination and describes the potential for future funding.
- A brief *budget synopsis* of three pages or less that details the nature of requested funding and concisely describes the proposed use of funds. International travel and food expenditures are not supported by this RFP. Note that all expenditures must be incurred prior to September 30, 2012—there will be *no exceptions under any circumstances*. Individual proposal funding requests are generally expected to fall below \$20,000.

Successful applicants are required to provide the following deliverables to the Baker Center:

- A brief *progress report* submitted by August 17, 2012 summarizing major milestones and remaining work;
- A brief *final funding narrative* submitted by October 26, 2012 that describes key research findings and the disposition of funds; and
- A brief *outcomes report* submitted by December 31, 2012 that explains progress in the dissemination of research findings and pursuit of external funding.

Job Opportunity

To Apply: <http://www.maxhire.net/cp/?E55F6E361D43515B77501B653D521A2604>

Our client is a multifaceted company with over a quarter of a century history and rich tradition in the food ingredients industry. They are a multi-dimensional manufacturing enterprise dealing in proprietary, value-added food blends and a widely diverse range of ingredients. They are currently seeking a Quality Compliance Manager for their location in the Midwest.

The Quality Compliance Manager's primary responsibility will be to support the Corporate Quality vision throughout the Company while ensuring that the current product and manufacturing processes practices are executed to industry standards.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

- Assuring regulatory compliance in quality documents (with a focus on Standard Operating Procedures) and labeling materials
- Duties include reviewing quality documentation and practices for compliance with regulatory requirements for two manufacturing facilities
- Research regulatory requirements
- Participate in Food Safety meetings
- Act as the Food Defense Coordinator
- Manage document control and compliance and change control procedures
- Review and approve labeling materials
- Provide regulatory and technical support to internal customers
- Responsible to manage the quality standards for each product line manufactured at each of the facilities
- Recognize and identify potential areas where existing quality procedures require change or where new ones need to be developed, especially regarding future enhanced production, toll processing projects, and raw materials control
- Determine priorities for quality assurance and enhancements, including timetables and deliverables
- Work with teams on audits (Customer, AIB, USDA, SQF) as needed
- Contribute to the manufacturing planning process helping to develop quality tests and protocols
- Educate and train production personnel on, and assure the plant is compliant with, Quality Systems, including record keeping, laboratory execution and product grading, quality alerts, hold and release protocols and COA compliance
- Actively partner with production personnel in troubleshooting quality problems, identifying root causes and implementing corrective measures to eliminate recurring quality issues
- Present educational programs to plant personnel to reinforce GMP's
- Maintain preparedness (logs, test procedures, SOP's) for customer and regulatory inspections and product recalls.
- Assure compliance with HACCP plans
- Assist in the creation of standard operating procedures (SOP's) to smoothly execute HACCP system requirements and assure compliance through audits of SOP's as required.

MINIMUM REQUIREMENTS are:

- Food Science, Microbiology, Regulatory degree or other related Bachelor's level degree. Master's degree a plus.
- 3-5+ years' experience in the food industry
- Solid Knowledge of QA procedures and programs in an industrial environment (HACCP, SSOP's, GMP's)
- Knowledge of physical testing, laboratory procedures and GLP's
- Excellent communication skills
- Experience with FDA and USDA regulations, standards, and inspectors
- Experience with AIB standards and SQF requirements
- Experience with customer and third-party audits
- Experience with Food Safety requirements
- Solid computer skills using word processing, spreadsheet and email software
- Familiarity with Process Pro software a plus

Student Opportunity

Become a CASNR Ambassador!



As an Ambassador You Will

- Strive to provide a positive image of CASNR
- Aid in the recruitment of prospective students
- Serve as a resource to the college and its students
- Promote the appreciation of agriculture & natural resources



Recruit!



Contribute!



Lead!

How to Apply

- Find the application at: casnr.utk.edu
- Turn completed application to Morgan Hall 126 or 201
- Applications are due by 5:00 pm on March 9th

Earn Scholarships!

Student Opportunity

The University of Tennessee Educational Advancement Program

*Graduate Administrative Assistant
Student Position – Web
Design/Database Management*



A TRiO Program

*Contact: Dr. Ronald McFadden
201 Aconda Court
865-974-7900*

*Send Resume and Letter of Interest
TO:
mcfadden@utk.edu*

Student Opportunity



Career Opportunities

KNOXVILLE UTILITIES BOARD IS AN EQUAL OPPORTUNITY EMPLOYER

KUB EMPLOYMENT OPPORTUNITY Civil Engineering Student Vacancy # 12018

Opening Date: 2/27/2012
Closing Date: 3/12/2012
Position Type: Temp/Part-Time

Pay Plan: Student
Pay Grade: 1, 2
Pay Range: \$8.00 - \$15.00

Job Information

Job Classification: Student
Department: 074 Engineering New Service
Work Location: 4505 Middlebrook Pike
Work Schedule: 15 - 30 hours/week: M - F

Work Description: Supports Collection System Improvement Program staff by performing duties such as but not limited to, investigating collection system issues, assisting with designs, reviewing plans and associated data, and characterizing for wastewater system improvement projects. Utilizes Microstation, ESRI ArcMap, etc. to produce various drawings, maps, and other design tools. Other projects, duties, and tasks will be assigned as needed.

Minimum Qualifications

- Must be a full-time student of an accredited college or university pursuing an Associates, Bachelors, or a graduate-level degree in Civil Engineering, Environmental, or Biosystems Engineering
- Must maintain full-time student status
- Must have and maintain a cumulative grade point average (GPA) of 2.5 or better
- Valid Tennessee driver's license
- Must be available to work a minimum of 15 hours per week
- Good oral and written communication
- Must possess basic computer skills

Physical Demands: Physically able to perform the required tasks and responsibilities; the physical requirements for a specific positions will be described to the applicant immediately prior to or during the interview.

Preferred Qualifications

- Has taken some sophomore, junior, or senior civil engineering coursework
- Intermediate or advanced level of proficiency with computer drafting software (ArcMap, AutoCad, Microstation)
- Would enjoy field investigations of the wastewater collection systems

Selection Process

(Subject to change)

Phase 1 Submit online application
Phase 2 Experience, training, and education evaluation
Phase 3 Interview with department representatives
Phase 4 Written, performance, and behavioral exercises
Phase 5 Background investigation
Phase 6 Physical assessment and/or drug screen

**Knoxville Utilities Board, Human Resources Department, 4505 Middlebrook Pike, Knoxville, TN 37921-5530
Employment Opportunity Line: (865) 558-2420, Telecommunications Device for the Deaf (TDD): (865) 558-2688**

Student Opportunity



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PIs, and the grants and
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