

State University of New York
College of Environmental Science and Forestry
1 Forestry Drive
Syracuse, New York 13210

October 13, 2017

ANNOUNCEMENT OF FACULTY VACANCY
ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR
PAPER/BIOPROCESS/RENEWABLE MATERIALS ENGINEERING
DEPARTMENT OF PAPER AND BIOPROCESS ENGINEERING

<https://esf.interviewexchange.com/jobofferdetails.jsp?JOBID=90415>

The Department of Paper and Bioprocess Engineering (<http://www.esf.edu/pbe/>) at the State University of New York, College of Environmental Science and Forestry (SUNY-ESF) invites applications for an academic-year, tenure-track position at the rank of **Assistant Professor/Associate Professor in the area of Paper/Bioprocess/Renewable Materials Engineering** (commensurate with experience of the candidate per decision of campus leadership.) The Department is seeking a candidate with interests broadly associated with the teaching and research activities that address critical environmental questions and complements scholarly pursuits of faculty in PBE and at ESF. Candidates must have a Ph.D. and record of research accomplishments as well as an innovative research and teaching plan. We are particularly interested in candidates with a commitment to diversity and inclusiveness.

Responsibilities: SUNY-ESF is seeking unique teacher-scholars committed to excellence in both teaching and research. The successful candidate will be expected to develop an extramurally funded research program in their area of interest, specifically focused on one or more of the following areas of expertise:

- Pulping, bleaching, and wood chemistry
- Bioprocess/biochemical engineering
- Biomaterials and renewable materials
- Microscopy
- Sector specific expertise in the industry (e.g., packaging)

A strong interest in developing collaborative research with others in the Department, as well as within the College overall is vital. Applicants must possess advanced skills, knowledge and engineering background to teach and develop courses in both the PBE graduate and the ABET-accredited undergraduate programs. Advising and mentoring undergraduate students and mentoring graduate students are essential. Professional and public service is also expected. This position will require the ability to work in a collegial manner with a diverse faculty, staff and student body. We are particularly interested in candidates with a commitment to diversity and inclusiveness.

Research responsibilities include developing, funding and sustaining a nationally recognized research program in their particular field of study. Research areas may include, but are not limited to:

- Biomaterials Engineering
- Paper Science and Engineering
- Bioprocess Engineering
- Sustainable Engineering Management
- Wood Science

Research duties will include mentoring undergraduate and graduate students, securing competitive grants to support research activities, and producing scholarly works including peer-reviewed publications. The applicant will have the opportunity to collaborate in research activities with colleagues in the Department (e.g. in paper engineering, bioprocess engineering, renewable materials science), the College (e.g. in biochemistry, biology, chemistry, landscape architecture, environmental resources engineering and forest and natural resources management), and neighboring universities such as Syracuse University (e.g. chemical engineering) and SUNY Upstate Medical University (e.g. in human health and epidemiology).

Teaching responsibilities include delivering both undergraduate and graduate engineering courses to fit the needs of PBE. The typical initial teaching load is three courses annually while maintaining an active research program. Teaching duties

can include: at least one required course in the undergraduate PBE curriculum; specialized engineering courses for advanced undergraduate and introductory graduate instruction; and advanced graduate courses in the applicant's research area. The applicant should be an enthusiastic and informed instructor capable of meeting program learning outcomes through teaching excellence. The successful applicant will actively support the program assessment and related activities to maintain the EAC/ABET accredited PBE undergraduate programs.

Service responsibilities include supporting University, College, and Department duties and those of the applicant's profession (e.g. societies, journals, and conferences). College and Department service will include advising undergraduate and graduate students, attending faculty meetings, fulfilling administrative and committee assignments, participating in and chairing graduate student steering committees, contributing to outreach, and advising student clubs and organizations. Professional service may involve reviewing manuscripts, convening conference sessions, and serving in an editorial capacity for journals, as a panel member for proposal reviews or regional to international task forces, and as an officer for professional societies.

The Department of Paper and Bioprocess Engineering is located in Walters Hall, which is devoted to education and research in pulp, paper, bioprocess, bioproducts, bioenergy, and allied fields. In addition to our current ABET-accredited undergraduate engineering programs in Paper Engineering and Bioprocess Engineering, we have added a new Renewable Materials Science program beginning in the Fall 2017 semester. This new program has options in Paper Science, Wood Science, and Polymer Science (in conjunction with the Department of Chemistry). An exchange program with the Beijing University of Chemical Technology will bring 45 to 50 students to ESF to complete their senior year starting in the Fall 2018.

In addition to a large number of special purpose laboratories and highly sophisticated scientific equipment, there is a pilot plant equipped with machinery and instrumentation for studies of pulping, pulp cleaning and screening, recycling, refining, and papermaking. Equipment includes two complete paper machines, one 48-inch and one 12-inch; two pressurized refiners for mechanical pulping; and auxiliary equipment. An environmental engineering laboratory includes various methods of paper recycling and waste treatment. A state-of-the-art laboratory for testing paper and other materials is in service. A modern bioprocess engineering lab includes fermenters, distillation columns, spectrophotometers, shakers, anaerobic chamber, incubators, autoclaves, bio- and chemical reactors. Pilot facilities also include equipment for the biological treatment and the separation processes for production of specialized chemicals and polymers from wood, including a 65-ft³ digester/extraction vessel, a 400-liter fermenter, nanoseparation equipment, and incubators for the growth of ligninolytic organisms. Also on the ESF Campus is the Edwin C. Jahn Laboratory for Chemical Research, a well-equipped polymer, environmental, natural products and biochemical research facility, including NMR, GC-MS and ICP-MS capabilities, and Baker Laboratory, with a JEOL JEM 2100F FES/TEM Transmission Electron Microscope with X-ray, and a JEOL JSM IT100LA Low Vacuum Scanning Electron Microscope with EDS X-ray (2017 installation), and renewable materials process and fabrication facilities, microbiology and durability labs, drying and moisture control, and engineering test machines. New faculty will have access to this equipment for research and educational projects.

Required Qualifications:

- PhD at the time of appointment
- At least one engineering degree (undergraduate or graduate) in an appropriate field

Preferred Qualifications:

- Teaching experience
- Student supervision or mentoring experience
- Professional service experience
- Grant writing experience
- Peer-reviewed manuscript publication experience
- Research project management experience
- Professional licensure, registration, or certification

The College: Founded in 1911, the State University of New York College of Environmental Science and Forestry (ESF) is one of the nation's oldest and most respected schools dedicated to the study of the environment, developing renewable technologies and building a sustainable future. ESF consistently earns high rankings in US News and World Report, Forbes, Peterson's Guide, The Washington Monthly, Princeton Review and other national college guidebooks. The ESF main

campus is in Syracuse, NY and the institution has 9 regional campuses and field stations throughout Central New York and the Adirondack Park. Totalling 25,000 acres of college properties, there are excellent opportunities for field-based research.

ESF, part of the 64-campus State University of New York, was the first environmental college established in America and is the top-ranked, and for more than a century, has been at the forefront of confronting environmental challenges of unprecedented number and complexity by educating tomorrow's leaders, opening new possibilities, and inspiring the public to engage in creating a better future. ESF offers the excellence of a small campus education in an atmosphere of big ideas. ESF has a primary campus in Syracuse and several remote campuses across the state. The Syracuse campus provides a rich array of curricular and co-curricular experiences just southeast of downtown Syracuse and the remote campuses stretch from southern Onondaga County to the Adirondacks. The Syracuse area, location of the main campus, is home to many cultural events, museums, state and local parks, and numerous festivals throughout the year along with a growing downtown in the City of Syracuse. Onondaga County provides a variety of neighborhoods including urban, rural, and suburban with strong schools, affordable housing, and supportive communities.

Syracuse is a dynamic and diverse mid-sized community with plentiful natural, cultural, and civic opportunities, and is located on the eastern edge of the Finger Lakes with easy access to New York City, Boston, Toronto, Montreal, and the High Peaks Region of the Adirondack Mountains. "The Places Rated Almanac" ranks Syracuse among the top 10 percent of "Best Places to Live." ESF is one of eight colleges and universities located in Onondaga County, and is immediately adjacent to Syracuse University. Central New York is also home to numerous hospitals and medical facilities including SUNY Upstate Medical University, the St. Joseph's Hospital Health Center, the VA Hospital of Syracuse, and Crouse Hospital with all providing unique specialty areas to support the needs of the community.

Application Procedure: Application materials are required to be submitted on-line at <http://www.esf.edu/hr/> Applications should include: (1) a cover letter summarizing qualifications and why you are interested in the position, (2) a curriculum vitae, (3) a statement of research interests and experience, and (4) a statement of teaching philosophy and experience. The cover letter, research statement, and teaching statement should not exceed two pages each. Three letters of reference should also be submitted independently.

Application Deadline: Although applications will be accepted until the position is filled, candidates should submit their application by **December 1, 2017** to assure optimal consideration.

For More Information: Visit <http://www.esf.edu/hr/> for information about the college and department. Contact Dr. Biljana Bujanovic, Paper/Bioprocess/Renewable Materials Engineering Search Committee Chair, SUNY-ESF; email: bbujanovic@esf.edu; Telephone: 315-470-6907.

In accordance with the "Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act" institutions of higher education are required to prepare an annual report containing information on campus security policies and campus statistics. This report includes statistics for the previous three years concerning reported crimes that occurred on-campus; in certain off-campus buildings or property owned or controlled by SUNY-ESF; and on property within, or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning sexual assault, and other matters. You can obtain a printed copy of this report by contacting SUNY-ESF University Police at 315-470-6667 or by accessing the following web site: <http://www.esf.edu/univpolice/crimereports/>.

Pursuant to Executive Order 161, no State entity, as defined by the Executive Order, is permitted to ask, or mandate, in any form, that an applicant for employment provide his or her current compensation, or any prior compensation history, until such time as the applicant is extended a conditional offer of employment with compensation. If such information has been requested from you before such time, please contact the Governor's Office of Employee Relations at (518) 474-6988 or via email at info@goer.ny.gov.

SUNY-ESF is an equal opportunity/affirmative action employer. All qualified applicants will receive consideration for employment without regard to sex, gender identity, sexual orientation, race, color, religion, national origin, disability, protected veteran status, age, or any other characteristic protected by law.