Department of Forest Biomaterials

Assistant Professor – Engineering Systems Analyst

NC State University – Raleigh, NC

About the Department of Forest Biomaterials: The Department of Forest Biomaterials is part of NC State University's College of Natural Resources and offers comprehensive undergraduate and graduate programs in Sustainable Materials and Technology, and in Paper Science and Engineering. We are located in Raleigh, North Carolina, and our activities include teaching, research, extension programming, continuing education, and technical services that benefit the paper and pulp, wood products, housing, biomaterials, and bioenergy industries.

Position Responsibilities: The Department of Forest Biomaterials at NC State University is seeking applicants for a full-time, 12-month, tenure-track research and teaching faculty position. The incumbent will be expected to have a combination of technology and business skills that will allow them to work with the forest products industry in areas including financial management, process optimization and sustainability. The ideal candidate will have knowledge/skills/experience in one or more of the following areas related to Forest Products and similar fields:

- Systems and financial analysis
- Process simulation and modeling
- Sustainability and life cycle analysis

The successful applicant will be part of a department with 20 full time faculty members. Responsibilities include teaching undergraduate classes, and developing a research program in systems analysis for the forest products industry. This will include teaching and mentoring graduate students, and performing research in the areas of financial analysis, process integration and analysis using simulation tools and process sustainability. The Department has a highly collaborative, interdisciplinary research environment. The successful candidate will be expected to collaborate with faculty within the Department, across the University, and from around the world. It is expected that the incumbent will work with other faculty to develop funding for research projects that can support graduate students and expand the impact of their research program.

The position will require the person to be familiar with the forest products industry, and industry experience will be highly valued.

Qualifications: A Ph.D. level degree in engineering, physical sciences or related area is required. Industrial experience will be highly valued. The successful applicant must have the ability and desire to develop and conduct an effective research and education program in cooperation with faculty, staff, and industry. The candidate must be able to communicate effectively both orally and in writing using innovative technology transfer techniques. This position will be based in Raleigh.

Application Procedure: Please apply online at https://jobs.ncsu.edu/postings/34368 (Position # 00103850)

Review of applications will begin on May 1, 2014, and the anticipated start date is August 1, 2014.

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Our on-campus facilities include classrooms, laboratories, libraries, special research collections and state-of-the-art research and testing facilities, including the Robertson Paper & Pulp Laboratory, the Hodges Wood Products Laboratory and the Forest Biomaterials and Bioenergy Laboratories. Forest Biomaterials is currently home to 20 full-time faculty, 12 active adjunct faculty, 9 staff members, 20 research associates, 40 graduate students, and more than 150 undergraduate students. The research program includes work funded by government and corporate sponsors on a wide array of new forest based energy sources and materials, and novel manufacturing processes. Many of these technology based research projects also include engineering process modeling, and financial and life cycle analyses.