



Founded 1875

The Connecticut Agricultural Experiment Station

123 HUNTINGTON STREET, P.O. BOX 1106, NEW HAVEN, CONNECTICUT 06504

*Putting Science to Work for Society
Protecting Agriculture, Public Health, and the Environment*

POSTDOCTORAL SCIENTIST IN ADVANCED OXIDATION PROCESSES CHEMISTRY

A Postdoctoral Scientist position is anticipated starting as soon as September 2020 in the Department of Environmental Sciences funded by a grant from the NSF Division of Chemistry. The individual will explore novel homogeneous and heterogeneous peroxide-based catalytic systems for oxidizing organic contaminants in wastewater and reuse water that do not require light, heat or metal activation. We are seeking a creative and independent individual with strong interests in chemical processes to design catalysts, carry out the necessary thermodynamic and kinetic experiments, and establish underlying reaction mechanisms using a combination of traditional and advanced methods, including molecular computations. The individual will be expected to provide progress reports, write and submit manuscripts for publication, and present results at scientific conferences. The candidate must have a Ph.D. degree in chemistry, chemical/environmental engineering, or other relevant field, have a background in AOPs or closely related area, and preferably have experience in computational chemistry. Helpful also will be skills in such instrumentation as XPS, TEM, SEM-EDX, FTIR, ¹H- and ¹³C-NMR, EPR, and theoretical modeling such as density functional theory. Applicants must have demonstrated effective oral and written communication skills, be able to provide a coherent and well-organized presentation of their past work and have a strong publication record. The appointment is for one year with the potential for renewal subject to performance. Starting annual salary is \$51,622 with attractive benefits. Interested persons should submit electronic copies of: 1) a letter of application specifically addressing how the applicant has the experience and meets the job requirements as listed above; 2) a CV; 3) one example of a published or in-print paper; and 4) contact information for at least three professional references, to Dr. Joe Pignatello, Chief Scientist and Head, Department of Environmental Sciences, The Connecticut Agricultural Experiment Station, 123 Huntington Street, P. O. Box 1106, New Haven, CT 06504; joseph.pignatello@ct.gov. Incomplete applications will not be considered. Review of applicants will begin immediately and continue until a suitable applicant is found.

Equal employment opportunity means employment of people without consideration of age, ancestry, color, criminal record (in state employment and licensing), gender identity or expression, genetic information, intellectual disability, learning disability, marital status, mental disability (past or present), national origin, physical disability (including blindness), race, religious creed, retaliation for previously opposed discrimination or coercion, sex (pregnancy or sexual harassment), sexual orientation, veteran status, and workplace hazards to reproductive systems unless the provisions of sec. 46a-80(b) or 46a-81(b) of the Connecticut General Statutes are controlling or there are bona fide occupational qualifications excluding persons in one of the above protected classes. To file a complaint of discrimination, contact Dr. Jason White, Director, The Connecticut Agricultural Experiment Station, P.O. Box 1106, New Haven, CT 06504, (203) 974-8440 (voice), or Jason.White@ct.gov (e-mail). CAES is an affirmative action/equal opportunity provider and employer. Persons with disabilities who require alternate means of communication of program information should contact the Chief of Services, Michael Last at (203) 974-8442 (voice), (203) 974-8502 (FAX), or Michael.Last@ct.gov (e-mail).

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