AUBURN UNIVERSITY | SAMUEL GINN COLLEGE OF ENGINEERING

Department of Civil and Environmental Engineering

Postdoctoral Fellow Position: Biological Processes in Aquifer Systems

The postdoctoral position will focus on understanding the natural attenuation mechanisms (with emphasis on biological processes) and transformation pathways of various organic contaminants of emerging concern (e.g., per- and polyfluoroalkyl substances) and emerging issues of concern for traditional contaminants in aquifer systems. Projects are funded by the Strategic Environmental Remediation Development Program (SERDP) in collaboration with researchers at Brown University, Yale University, Virginia Tech, and several industrial partners.

Preferred experience and qualifications include: cultivation of environmentally relevant bacteria, preparation of aerobic and anaerobic microcosms, standard molecular biology techniques (e.g., extraction of DNA and RNA), molecular biological tools to analyze environmental samples (e.g., PCR, qPCR, qRT-PCR, and primer design), and fundamental understanding of chromatography techniques (e.g., HPLC, IC, and GC-FID, -µECD, -MS) to quantify contaminant and biogeochemical parameter concentrations. Familiarity with bioinformatics is also desirable.

Applicants must hold a doctoral degree in environmental engineering, microbiology, chemical engineering, or a closely related field. The selected candidate must possess excellent written and interpersonal communication skills. The hired candidate will have the opportunity to interact with faculty across campus, mentor graduate students, and be involved with proposal development and lab management.

The position is available beginning January 2021 or later in spring 2021 and will be initially offered for one year with the possibility of renewal dependent upon successful progress in research. The salary is competitive and commensurate with experience. Interested individuals should send a cover letter describing research experience and career goals, their curriculum vitae, and the names and email addresses of three references to Dr. Natalie Cápiro by email (natalie.capiro@auburn.edu). Review of application materials will begin immediately and continue until the position is filled. Qualified candidates will be contacted to schedule a follow-up video conference interview.

Auburn University is one of the nation's premier (R1) public land-grant institutions that provides collaborative opportunities with experts throughout the sciences and engineering. The Samuel Ginn College of Engineering is growing with major investments in infrastructure, including Dr. Cápiro's laboratory that is housed in the newly renovated, state-of-the-art Gavin Engineering Research Laboratory. The city of Auburn offers a great quality of life with affordable housing, active civic engagement, and recreational opportunities such as Chewacla State Park in the Appalachian foothills. Auburn is a college town and one of Alabama's fastest growing cities that is within a few hours' drive of Atlanta, Montgomery, Birmingham, and beaches in AL and FL.

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