



NORTHWESTERN  
UNIVERSITY

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## **Postdoctoral Research Fellow in Microbial Ecology and Interactions in Nitrification-Anammox Bioprocesses**

The Department of Civil and Environmental Engineering at Northwestern University invites applications for a postdoctoral scholar position. The successful candidate will contribute to ongoing research related to microbial ecology and interactions between functional guilds in mainstream nitrification-anammox bioprocesses for resource efficient nitrogen removal from wastewater. The successful candidate will also have the opportunity to contribute to a new related project on characterization of material properties and aggregate architecture of mixed-culture biofilms. In addition to independent research activities, the candidate will supervise graduate students, prepare project reports and journal articles, and communicate results at national and international conferences.

**Qualifications:** A Ph.D. in Environmental Engineering, Microbiology, Biology, Bioinformatics, or related fields is required. The following skills are desirable but not required in the ideal candidate: 1) Knowledge and experience with molecular tools for profiling microbial community structure and function (shotgun metagenomics/metatranscriptomics, amplicon-based DNA sequencing, qPCR), including bioinformatics approaches to 'omics' data analysis; 2) knowledge of microscopic imaging modalities (CLSM, OCT, FISH, etc.) and image analysis techniques applicable to biofilm or microbial aggregate characterization; and 3) experience operating mixed-culture microbial bioreactors/ chemostats, particularly with N-cycling microbial populations.

Applications will be reviewed as received with an interest in an early appointment. The initial appointment will be for one year, with the possibility of extending to a second year depending on performance and availability of funds. The salary is negotiable, commensurate with experience and qualifications. To apply, please email a cover letter describing research experience and interests, a curriculum vitae, the names and contact information of three references, and if available 2 representative peer-reviewed publications to George Wells at [george.wells@northwestern.edu](mailto:george.wells@northwestern.edu). **Please send applications as a single pdf file.**

For more information about being a Postdoc at Northwestern University, see the Office of Postdoctoral Affairs website: <http://www.tgs.northwestern.edu/resources-for/postdocs/index.html>

*Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women and underrepresented minorities are encouraged to apply.*

