

**From:** Amy Marcarelli  
**Subject:** Research Experience for Undergraduates in Stream Ecology – Michigan Tech, Summer 2018

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## **Research Experience for Undergraduates in Stream Ecology – Michigan Tech, Summer 2018**

The Marcarelli Aquatic Ecosystem Ecology Lab is searching for a motivated student in Ecology, Biology, or Environmental Science for a NSF Research Experience for Undergraduates (REU) position. The student will work closely with Dr. Marcarelli and her graduate students to study the balance between nitrogen fixation and denitrification in streams and rivers. The REU student will design a research project, conduct field work, analyze samples and data, and synthesize findings related to the core questions of this project:

1. How do nitrogen cycle processes co-exist in small streams, large rivers, and adjacent wetlands?
2. How does nutrient enrichment shift the balance among nitrogen cycle processes?
3. How does community composition of algae and microbes relate to rates of nitrogen cycle processes?

There will be opportunities to conduct field work in the Upper Peninsula of Michigan, participate in undergraduate research workshops, and present research results to the Michigan Tech community and possibly at a national conference.

The candidate must be a citizen or permanent resident of the United States and enrolled as an undergraduate student in Fall 2018. The REU is expected to last 10 weeks (start/end date negotiable but should occur between June 1 and August 31 2018) with a total stipend of \$5,000 and an additional \$1,000 to offset the cost of summer lodging, which is available on campus at Michigan Tech.

To apply, please submit a cover letter (include a statement of interest, future plans, confirmation of eligibility, and preferred start/end dates), an up-to-date CV or resume, a recent transcript (unofficial is fine), and names and contact information for two references to Dr. Amy Marcarelli ([ammarcar@mtu.edu](mailto:ammarcar@mtu.edu)). Application review will begin immediately and continue until position is filled.

**Visit our lab webpage for a more in-depth view of our research and to meet the members of our team. <http://marcarelli-lab.bio.mtu.edu/home>**

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