

PhD Graduate Assistantship in Environmental Management/Applied Mathematics

Mathematical and computational modeling of ocean transport with application to the control of autonomous ocean vehicles.

Applications are invited for a PhD graduate research assistant in Environmental Management at Montclair State University (MSU), Montclair, NJ, USA. The goal of the PhD research will be to combine computer models of fluid flows and mathematical models of transport and control to find optimal control strategies for autonomous ocean vehicles, which will be modeled both as inertial and non-inertial objects. The project is funded by the National Science Foundation and is led by Dr. Eric Forgoston (Department of Mathematical Sciences at MSU) in collaboration with Dr. Lora Billings (Department of Mathematical Sciences at MSU) and Dr. Philip Yecko (Department of Physics at Cooper Union, New York City, NY, USA).

Applicants who have obtained a Bachelor's or Master's degree with a strong background in mathematics, physics, or engineering, and who are interested in earth and environmental sciences are encouraged to apply. Applications are welcome from US nationals as well as from overseas candidates. The PhD research assistantship is held in the interdisciplinary Environmental Management doctoral program, and therefore the applicant must fulfill all requirements for acceptance to the PhD program (<http://www.montclair.edu/csam/environmental-management-phd/>). The PhD graduate research assistantship provides a stipend and covers the cost of tuition. Employment and matriculation to the PhD program is expected to begin in September, 2015 or January, 2016.

Applicants should send a cover letter detailing specific interests in this research area, a CV, a copy of grade transcripts from any prior education (BS, MS, or equivalent), and the contact information (name and email address) of three recommenders. Contact Dr. Eric Forgoston (eric.forgoston@montclair.edu) for questions.

Application materials should be emailed to Dr. Eric Forgoston (eric.forgoston@montclair.edu).