

**Subject:** Post-doc in ecotoxicology and population modeling

The Department of Fisheries Wildlife and Conservation Biology at the University of Minnesota Twin Cities seeks a postdoctoral associate to begin as early as April 2016 (start date negotiable). This full-time, 12-month position is funded by the Minnesota Environment and Natural Resources Trust Fund for up to 16 months.

The successful applicant will work as a postdoctoral associate under the guidance of the principal investigator as part of a large, interdisciplinary team that is using lab experiments, population modeling, and economics to conduct a cost-benefit analysis that links the cost of different wastewater estrogen treatment options to fish biomass. The successful applicant will be responsible for developing a spatially explicit, individual-based fish model that links predicted estrogen levels to the equilibrium biomass of model fish species in a river that receives treated wastewater. The successful applicant is expected to publish and attend scientific meetings; be organized, creative and independent; and work with other members of the Venturelli Lab and collaborators.

Required Qualifications:

- 1) Ph.D. in fisheries science or related field prior to start date.
- 2) Demonstrated ability to direct and run independent research projects.
- 3) Working knowledge of bioenergetics, population dynamics, and toxicology
- 4) Demonstrated ability to code in R, FORTRAN, Matlab, or equivalent
- 5) Excellent quantitative, writing, and presentation skills
- 6) Experience publishing peer-reviewed publications.

Preferred Qualifications:

- 1) Specific knowledge of and experience with Dynamic Energy Budget Theory
- 2 Specific knowledge of and experience with aquatic toxicology
- 3) Specific knowledge of and experience with individual-based and spatially-explicit population models (including development)

The successful applicant will be based in Paul Venturelli's lab in the Department of Fisheries, Wildlife and Conservation Biology. There is also the potential to collaborate with [Cheryl Murphy's ecotoxicology lab](#) at Michigan State University.

The review of applications begins 1 April 2016. Open until filled. For complete details and application instructions, [click here](#), enter 307102 into the Job ID field, enter 'Last Year' into the Jobs Posted Within field, and then click Search.

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Paul

Paul Venturelli

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"Our capacity to simulate the future...could save us from the worst selfish excess" Richard Dawkins