

Three Postdoctoral associate positions available at in bioeconomics/ natural resource economics at the Yale School of Forestry and Environmental Studies (FES)

Started dates between January 2015 and summer 2015

All hires are expected to contribute to research on coupled ecological-economic systems. Post-doctoral associates may work on one or a mix of the following projects depending on skills and interest.

1. **Valuing natural capital.** The goal of this project is to recover imputed prices, consistent with capital theory, for natural capital stocks. We have some ideas about which stocks to target first, but are open to ideas. This position will also be involved with developing/extending methodology. (starts between January to summer 2015).
2. **Linking hydrological and land use decision models to devise least-cost payments for water services in the Panama Canal watershed.** The goal of this project is to collaborate with hydrologists, ecologists, and economists to help link hydrological models of the Panama Canal watershed with landholder economic decision models to identify the least cost approach to stabilizing canal flows through land-use incentives (start summer).
3. **Infectious disease and endogenous human economic behavior.** This project focuses on theoretical or empirical modeling relating to human decisions/behavior and infectious human and non-human disease systems, specifically relating to forward-looking strategic behavior. (start summer 2015).

Hires are expected to collaborate with faculty and to develop original research. There will also be opportunities to participate in other ongoing research. Applicants are encouraged to visit <http://environment.yale.edu/profile/eli-fenichel/research> for more information about the three primary projects and other ongoing projects. Positions are expected to last 1-2 years.

#### Qualifications

- PhD focused on Natural Resource & Environmental Economics or Mathematical Ecology/Biology (or closely related areas).
- Knowledge of capital theoretic natural resource economics
- Strong programming capabilities (e.g., Mathematica, MatLab, R, Stata, C++, python)
- Knowledge and interest in both ecological (epidemiological) and economic systems
- At least one (both preferred) of the following:
- Abilities in dynamical systems modeling, dynamic programming, or optimal control
- Abilities in econometrics or applied statistics, with specific understanding and care relating to observational and secondary data sets

#### Benefits

These positions offer a competitive salary and excellent benefits. Furthermore, Yale FES offers an excellent interdisciplinary environment with strong core groups in economics and ecology.

For more information or to apply please contact Eli Fenichel (Yale F&ES) at [eli.fenichel@yale.edu](mailto:eli.fenichel@yale.edu).

Applicants should send a cover letter describing their interests and skills, a CV, and the contact information for three professional references. I expect to contact candidates in November.