

Geography-related Opportunities – week of August 17, 2009

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GRADUATE STUDENT AND POSTDOCTORAL RESEARCH OPPORTUNITIES IN THE BIOECONOMICS OF AQUATIC INVASIVE SPECIES

We are building a collaborative research team consisting of a mix of graduate students, postdoctoral fellows, and research technicians to work on an NSF-funded project on the bioeconomics of aquatic invasive species in Wisconsin lakes. The project is a collaboration between the Department of Agricultural and Applied Economics (Bill Provencher, David Lewis) and the Center for Limnology (Steve Carpenter, Jake Vander Zanden) at the University of Wisconsin - Madison. Funding is available for up to five positions, starting in spring or summer of 2010.

Curriculum vitae, cover letter, and the names of three references must be received by 1 December 2009. Please address correspondences to Dr. Steve Carpenter and send electronically to the following address:

ais@aae.wisc.edu. For more information about the project, visit our project website: <http://limnology.wisc.edu/aischns/>

Project Summary

Invasive species are often a major threat to native species and biodiversity, and consequently to the social value of ecosystems. In the absence of good modeling of the economics and ecology of human-caused species dispersal, identifying management policies that best serve social objectives with respect to the control and prevention of the spread of invasive species is unlikely if not impossible. This project develops an integrated economic and ecological model to examine the spread of aquatic invasive species (AIS) in a freshwater lake system where recreational boaters are the principle vector of dispersal. The model is applied to an investigation of a large lake system in northern Wisconsin. The overarching question addressed by the research is:

How do policy interventions intended to control or prevent harmful aquatic species invasions affect the decisions and economic welfare of individuals using the relevant resource, and the spatial dynamics of invasions on heterogeneous landscapes?

Intellectual Merit: The recent literature on aquatic species invasions has made major advances in understanding the spatial dynamics of the spread of aquatic invasive species. The model developed in this project would advance this understanding in four ways. First, it would generate estimates of the net benefits to lake users (boaters and shoreline property owners) of various management policies for the control/prevention of AIS. Second, it allows investigation of the economic and ecological consequences of a much richer set of management policies than previously examined in the literature, including the use of economic incentives at different temporal and spatial scales. Third, it highlights the feedbacks induced by the spread of an invasive species across a lake system, in particular the *indirect* feedbacks that arise because in many cases the policies that managers adopt in response to AIS dispersal also affect the decisions made by boaters, possibly in counterproductive ways. Finally, comparing the forecasting ability of the model with other, simpler and less costly models common in the current literature

allows investigation of what features of AIS modeling are especially important. Through a set of experiments, the project would also make significant contributions to basic questions about AIS ecology, such as propagule uptake, out-of-lake survival, colony establishment parameters, and inter- and intra-seasonal abundance cycles.

Broader Impacts: Aquatic invasive species are among the top natural resource concerns for the public in lake-rich places, as evidenced by the funding of invasive species prevention/control programs and government attempts to develop new laws and administrative rules to manage aquatic invasive species. For example, Wisconsin expenditures for “aquatic invasive species control grants” has increased dramatically, to a current level of \$4.3 million/year—a sizable financial outlay for a state granting program—and Wisconsin Assembly Bill NR40 proposes various invasive species control requirements and prohibitions. The efficacy of such financial and legal efforts can benefit from research examining which lakes are most vulnerable to invasion and what are the implications of alternative management regimes for the spread and economic impact of AIS.

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Job Title: Google Earth Enterprise (GEE) Fusion Engineer

Description: Next Tier Concepts, Inc. (<http://www.ntconcepts.com>) is a small business located in Vienna, VA specializing in geospatial solutions, custom software development, and eLearning. As our organization continues to grow, we have an immediate availability for an experienced individual to fill a full time GEE Fusion Engineer position.

Responsibilities:

- Assist coordinating, installing, and implementing Google Earth Globes and Fusion for a variety of government and commercial customers.
- Conduct technical and end-user training as part of the deployment process.
- Support the Geospatial Solutions department with other geospatial/Google-related activities as needed, for example providing capabilities demos and attending industry events.
- This position will require moderate travel (up to 20%).

Required Qualifications:

- Experience with GIS/Geospatial concepts
- Experience with Google Earth Enterprise (including Fusion and Server software)
- Experience with standard geospatial formats (including imagery, terrain, and vector types)
- Experience with Linux operating systems (RedHat, SUSE, Ubuntu)
- Experience writing shell scripts
- Comfortable with hardware configuration and setup
- Comfortable making presentations and teaching in front of a small group of people
- Willing to travel
- Must be a US Citizen
- Possess TS/SCI or the ability to obtain a security clearance

Company Overview: NT Concepts is a leading professional services provider with over 10 years of experience in the web application development industry, and over 60 combined years of experience on our program management team. NT Concepts employs experienced and skilled geospatial engineers, software developers, network engineers, multimedia designers, project managers, instructional designers, and technical writers. Many of our staff have advanced degrees, and most hold certifications in their respective disciplines, including Google Enterprise Professionals, Microsoft Certified Solutions Developers, Project Management Professionals, and eLearning/eCommerce Specialists. Our name reflects our mission of applying the "next tier concepts," or in other words, the emerging generation of technologies, to build solutions for public and private sector customers.

If you are a highly motivated individual looking for a position that will challenge your skill set while providing invaluable experience, please email your resume and salary requirements to jamil.luckett@ntconcepts.com .

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Assistant Professor or Associate Professor of Geography, U of Oklahoma.

<http://www.asprs.org/resources/classified.html>

OKLAHOMA, NORMAN 73019. The Department of Geography at the University of Oklahoma (<http://geography.ou.edu/>) invites applications for a nine-month, tenure-track faculty position. Appointment may be made at the rank of Assistant Professor or Associate Professor, depending on qualifications. Post-doctoral experience desirable but not required. Salary commensurate with experience. The start date is August 16, 2010 but an earlier starting date may be possible if mutually beneficial. Ph.D. required at time of appointment.

The Department seeks an outstanding researcher and teacher who applies Remote Sensing and GIS to the study of environmental resources or human–environment relationships. Potential fields of scientific investigation could include, but are not limited to: cultural and indigenous geographies; renewable energy and sustainable development; and natural resource management. Demonstrated ability to secure external funding is an advantage. Ability and willingness to teach undergraduate and graduate level courses in both Remote Sensing and GIS are required. A normal teaching load is two courses per semester.

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Fall 2009 EPA Science To Achieve Results (STAR) Fellowships For Graduate Environmental Study

URL: http://epa.gov/ncer/rfa/2009/2009_star_gradfellow.html

Open Date: 08/19/2009 - Close Date: 10/22/2009

Summary: The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is offering Graduate Fellowships for master's and doctoral level students in environmental fields of study. The deadline is October 22, 2009 at 4:00 PM for receipt of paper applications, and October 22, 2009 at 11:59:59 PM ET for submittal of electronic applications to Grants.gov. Subject to availability of funding, the Agency plans to award approximately 120 new fellowships by June 30, 2010. Master's level students may receive support for a maximum of two years. Doctoral students may be supported for a maximum of three years, usable over a period of four years.

The fellowship program provides up to \$37,000 per year of support per fellowship.

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"Between Spaces. Movements, Actors, and Representations of Globalization" at the Freie Universität (FU) Berlin – PhD + Postdoc positions

The International Research Training Group (IRTG) 1571/1 "Between Spaces. Movements, Actors, and Representations of Globalization" at the Freie Universität (FU) Berlin invites applications for 15 PhD grants (approx. 1.200,- EUR per month) and 2 Postdoctoral grants (approx. 1.400,- EUR per month) to commence at the earliest possible date.

The interdisciplinary IRTG is funded by the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG) and is hosted by the Institute for Latin American Studies at the Freie Universität Berlin, Germany. The IRTG cooperates closely with Humboldt-Universität Berlin, Universität Potsdam, El Colegio de México, Universidad Autónoma Nacional de México and the Centro de Investigaciones y Estudios Superiores en Antropología Social in Mexico City.

Aims:The IRTG adopts a new perspective in the study of globalization. It seeks to make an innovative contribution to the re-orientation of Area Studies as a transnational and interdisciplinary field of study by means of a dialogue between disciplines from the social sciences and the humanities as well as between academic traditions from Mexico and Germany. The IRTG studies movements between different world regions and the new spaces emerging both in past and present periods of intensifying global interconnections.

Disciplines involved:History, Political Science, Sociology, Economics, Social and Cultural Anthropology as well as Literature and Cultural Studies. Applications from these disciplines are welcome.

Research environment: The Berlin-Potsdam area offers an internationally renowned research and training environment in the field of Latin American studies. The Dahlem Research School of the FU Berlin provides further opportunities for interdisciplinary training.

Languages: Spanish and English are the working languages of the IRTG. Applications can be submitted in Spanish, English and German. Applications in German must include a CV and an abstract of the research project in Spanish or English. Theses and monographs can be submitted in English, Spanish or German.

PhD grants: The grants will be awarded for two years and may be extended for one more year.

Requirements: Applicants must hold an outstanding MA or MSc degree or an equivalent degree in one of the disciplines involved.

- . a PhD research project in compliance with the research themes and questions of the IRTG
- . very good Spanish and English skills

Applications must include the following documents:

- . certified copies of undergraduate and postgraduate diplomas including a transcript of records
- . an innovative research proposal in compliance with one of the research areas of the IRTG (maximum 10 pp. including work plan, schedule, and select bibliography) and an abstract (1/2 p. in Spanish or English)
- . Curriculum Vitae including foreign language certificates (in Spanish or English)
- . a personal statement detailing the specific interest in the IRTG "Between Spaces"
- . one letter of recommendation by a university professor

Postdoctoral grants: The grants will be awarded for 18 months and may be extended for six more months.

Requirements: . outstanding doctoral degree in one of the disciplines involved obtained during the last five years

- . a research project in compliance with the research questions of the IRTG
- . very good Spanish and English skills

Applications must include the following documents:

- . certified copies of graduate and postgraduate diplomas including records of academic achievement; PhD diploma
- . Curriculum Vitae including foreign language certificates (in Spanish or English)
- . list of publications
- . postdoctoral research proposal (approx. 10 pp. including work plan, schedule, and select bibliography) and an abstract (1/2 p. in Spanish or English)
- . Summary of the PhD thesis (5 pages)
- . one letter of recommendation by a university professor

For further information on the research and study programs see: <http://www.lai.fu-berlin.de/entre-espacios/>

PhD students and postdoctoral fellows should be prepared to reside in the Berlin-Potsdam area, to take part in a structured study program and to undertake an extensive research trip. Travel expenses and material costs as well as supplements for families and child care are covered according to DFG guidelines. We especially encourage international applications. The FU Berlin aims at increasing the number of female researchers and expressly encourages women to apply. Applications from people with severe disability with equal suitability will be given preferential treatment.

Applications are to be sent in both hard copy and digital (PDF) forms until 15 September 2009 to the following address:

Team of spokespersons of the IRTG "Between Spaces":

Prof. Dr. Stefan Rinke and Prof. Dr. Marianne Braig

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Freie Universität Berlin

Rüdesheimer Str. 54-56

14197 Berlin

Germany

Email: entre-espacios@lai.fu-berlin.de

Visit the website at <http://www.lai.fu-berlin.de/entre-espacios/>

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TENURE TRACK POSITION IN ENVIRONMENTAL STUDIES AT OBERLIN COLLEGE

Oberlin will hire a full-time, tenure-track faculty member at Assistant Professor or more senior level to start August 2010. We seek a colleague who can address the relationships between land and people. The successful candidate will explore the interplay between cultural, economic, political and ecological systems in the context of changing demography and changing climate. Desirable research and training includes: social or cultural geography; spatial analysis; urban and regional planning; and environmental anthropology or sociology. Applications are due on October 23. A complete job description and instruction for application are posted at: http://new.oberlin.edu/home/jobs/jobs_detail.dot?id=1339975

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