

A postdoctoral research fellow with expertise and interest in systems modeling/software engineering is sought to join an ongoing NSF project (<http://goldenmonkey.sdsu.edu/>). The successful postdoctoral fellow will lead and coordinate the development and applications of an agent based model (ABM) that aims to integrate data from satellite imagery, ground based vegetation survey, camera trapping images (for mammal habitat occupancy), household interviews, participatory mapping, and governmental archives. The ABM is expected to be user-friendly, spatially explicit, able to perform parallel computing, capable of online, remote simulation, and (hopefully) applicable on a variety of platforms (e.g., desktop, mobile).

Successful applicants will have degrees and backgrounds in one or more relevant disciplines, such as computer science and engineering, computational ecology, geography and spatial science, landscape ecology, geographic information systems, bioinformatics, demographic / economic modeling, land change science, and/or human environment science. Knowledge of and experiences in computer simulation modeling and programming languages (e.g., Python, Java, C++) as well as spatial software programs (e.g., geographic information systems) are essential. Other desired skills include experiences with ArcGIS servers, high performance computing applications, cloud computing, geo-visualization, and project management.

This is a postdoctoral position based in the Department of Geography (<http://geography.sdsu.edu/>) at San Diego State University (www.sdsu.edu). A competitive salary and benefit package will be offered commensurate with experience.

Application materials should include: (1) cover letter, (2) vision about ABM development and how to achieve the vision, (3) statement of professional goals, (4) CV, (5) transcripts (unofficial ones are OK initially), (6) list of 3-4 references (names and contact information), and (7) up to three representative models or software programs developed by the applicant.

Applicants are encouraged to submit their application materials as soon as possible. Applications are welcome until a suitable candidate is identified. Reviews of applications will begin on December 1, 2015. The position is available now but start date is relatively flexible. Applications and questions should be emailed to:

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<http://complexities.org/>