

**Postdoctoral Research Associate, Center of Biodiversity Outcomes**

**Location**

Tempe Campus

**Full/Part Time**

Full-time

**Regular/Temporary**

Regular Fiscal Appointment

**Position Type**

These are grant funded positions. Continuation is contingent on future grant funding. Appointments are year-to-year for maximum of 1 year, with subsequent renewal, based upon performance, the needs of the department, and availability of funding.

**Hiring Range**

\$40000 to \$44000 annually; DOE

**Job Description**

The Center for Biodiversity Outcomes, a center of the Julie Ann Wrigley Global Institute of Sustainability at Arizona State University, invites applications for 1 postdoctoral scholar positions to begin in 2015. The scholars will work with Dr. John Sabo and become part of the Earth Genome project which aims to develop water scenario planning tools for the World Business Council on Sustainable Development. Applicants must be within four (4) years of receipt of the terminal degree at the time of application. Scholars will be expected to work on developing land surface models to understand where green infrastructure (i.e., wetland restoration, riparian forest restoration, prairie strips) could impact short term hydrologic storage. This work is funded by a non-profit (Earth Genome) with engagement with private sector including member companies of the World Business Council for Sustainable Development (WBCSD). WBCSD companies are interested in understanding where green infrastructure might pay off and where and how it might reduce their costs compared to traditional sourcing from gray infrastructure. Though the project will initially start with a few ~3 major river basins, the ultimate Earth Genome goal is to have this done at a global scale for use as a big picture screening and scenario planning tool for WBCSD member companies.

EarthGenome is working directly with Esri and Blue Raster to develop an API/GUI that companies will use to mine, explore and visualize data products from model output. Fellows will contribute to the design of the API to mine stored data to create flexible scenarios. Fellow's primary responsibility is the hydrology within a land surface model (e.g., Variable Infiltration Capacity model) but will have extensive interactions with WBCSD including travel to their congress in Paris in December. Fellow will also receive leadership and science communication training through the Center for Biodiversity Outcomes.

**Minimum Qualifications**

Successful candidate must have at the time of appointment an earned doctorate in Hydrology, Civil or Environmental Engineering, or related field, or the equivalent terminal degree in their field, and must demonstrate their dedication to solving sustainability problems through research and scholarship. They must also have the capacity to work effectively in interdisciplinary teams, a strong record of scholarly achievement, and excellent communication skills.

**Desired Qualifications**

Special emphasis will be placed on candidates who explain how their research would both benefit from

and advance ongoing activities in the area of public-private partnerships to solve sustainability problems, who strongly integrate the pursuit of knowledge about earth science and modelling with end users outside of the ivory tower.

**Department and Project Information**

The Julie Ann Wrigley Global Institute of Sustainability is a research institute with a trans-disciplinary focus on finding real-world solutions to environmental, economic, and social challenges. It brings together academics from varied disciplines with leaders from business, government, and the nonprofit sector to solve some of the most pressing environmental, economic, and social challenges of sustainability, to create and share knowledge, and to develop a global network of practitioners and scholars. Examples of specific problem domains include water quality and scarcity; adaptation to changes in climate and environment; sustainable development; urban sustainability; energy, materials, and technology; food and food systems; and policy, governance, and social transformation.

**Instructions to Apply**

To apply to this position, please send application materials to [giosjobs@asu.edu](mailto:giosjobs@asu.edu). Applicants must submit a cover letter addressing interest, experience (in response to the requirements stated above) and future career goals, a curriculum vitae, three most relevant publications in PDF form, and the names, addresses, email addresses, and telephone numbers for three professional references. Only electronic applications will be accepted.

**Application Close Date**

Application deadline is April 30, 2015.

**Background Check Statement**

ASU conducts pre-employment screening for all positions which includes a criminal background check, verification of work history, academic credentials, licenses, and certifications.

Arizona State University is an Equal Opportunity/Affirmative Action employer. The Julie Ann Wrigley Global Institute of Sustainability actively encourages diversity among its applicants and workforce.