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Careers

Scientific Visualization Developer

Title	Scientific Visualization Developer
Categories	Administrative and Professional Career Postings (http://hrs.boisestate.edu/careers/searchcareers/administrative-and-professional/)
Search #	RA-0002-14
Employee Type	Professional Full-Time
Department	Division of Research & Economic Development
Status	Open

Boise State University, powered by creativity and innovation, stands uniquely positioned in the Northwest as a metropolitan research university of distinction. Interested applicants are encouraged to apply for the position of Scientific Visualization Developer. This position will support the development of research capacity in visualization and transdisciplinary computational science and engineering. The primary responsibility of the Scientific Visualization Developer is to support researchers (faculty, post-docs, staff, students) in developing novel visualizations of research and outreach outputs of human/environmental science interactions for the recently funded 5-year NSF Managing Idaho's Landscapes for Ecosystem Services (MILES) project. At the end of the grant period, this position will more broadly serve the research community across the Boise State campus in visualization and computations science and engineering.

You will have the opportunity to:

Position Summary

- Create novel visualization solutions for multi-scale socio-biophysical data
- Develop visualizations to engage project stakeholders
- Develop open-source software solutions for mobile, web, desktop, and supercomputing platforms
- Deploy visualization solutions used by a range of skill levels to improve understanding of the human/environmental science interface
- Create new Big Data analyses for social and biophysical networks
- Work with researchers on best practices for communicating science with visualization, in collaboration with Boise State's Office of Information Technology and Idaho's Cyberinfrastructure Advisory Council for higher education
- Collaborate in preparation and writing of grant proposals to further enhance visualization capacity and advance visualization research.

Minimum Qualifications

- M.S. in Computer Science, Engineering, or Physical Sciences.
- 3 years of experience including:
 - Outstanding C++ and/or Python skills, or other appropriate scientific computing language, and a passion for programming and data analysis problems.
 - Demonstrated visualization experience.
 - Data integration and data management experience.
 - Strong quantitative skills.
 - Exceptional written and verbal communication skills and a desire to work with a large interdisciplinary team of researchers.

A plus if you have:

- Ph.D. in Computer Science, Engineering, or Physical Sciences
- Familiarity with open-source visualization or computational geometry libraries and software, such as OpenCL, CUDA, VTK, OpenGL, Gephi, CGAL, VisIt, GDAL, etc.
- Demonstrated modeling skills, grant writing and peer-reviewed publications are desired.

If This Sounds Like the Job for You

Please send CV, cover letter (not exceeding 2 pages), copies of two authored published papers or manuscripts most closely aligned with position expectations, and names and email addresses for three references, to Kay Trotter at kaytrotter@boisestate.edu (<mailto:kaytrotter@boisestate.edu>).

Close Date

Applications received by February 21, 2014, will receive full consideration, but applications will be considered until the position is filled.

AA/EEO Statement – Boise State University is strongly committed to achieving excellence through cultural diversity. The University actively encourages applications and nominations of women, persons of color, and members of other underrepresented groups. EEO/AA Institution, Veterans preference. For more information please [click here \(http://hrs.boisestate.edu/resources/eeoaa/\)](http://hrs.boisestate.edu/resources/eeoaa/).

Policy Statements

Background Investigations – Any offer of employment at Boise State University will be contingent upon the successful completion of a criminal background investigation and may require a credit and/or motor vehicle background investigation depending on the position. To view the University's full Background Investigations policy, [click here \(http://policy.boisestate.edu/human-resources/background-investigations/\)](http://policy.boisestate.edu/human-resources/background-investigations/).

Drug-Free Workplace – It is the policy of Boise State University to maintain a drug-free workplace and campus. For more information about this policy, please [click here \(http://policy.boisestate.edu/human-resources/drug-and-alcohol-free-workplace-policy/\)](http://policy.boisestate.edu/human-resources/drug-and-alcohol-free-workplace-policy/).

Boise State University is a SMOKE FREE campus. For more information please [click here \(http://healthservices.boisestate.edu/smokefree/\)](http://healthservices.boisestate.edu/smokefree/).

**Jeanne Clery
Statement**

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act) requires all colleges and universities that participate in federal financial aid programs to keep and disclose information about crime on and near their campuses to all job applicants. [Click here \(http://security.boisestate.edu/annual-security-reports/\)](http://security.boisestate.edu/annual-security-reports/) to read the Boise State University Safety Report.

Human Resource Services | [hrs@boisestate.edu \(mailto:hrs@boisestate.edu\)](mailto:hrs@boisestate.edu) | 208-426-1616 | 1910 University Drive - Public Affairs and Arts West (PAAW) Building

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