Assistant, Associate, or Senior Scientist (Einstein@Home Computational Scientist)
University of Wisconsin-Milwaukee

The Center for Gravitation, Cosmology and Astrophysics (CGCA) at the University of Wisconsin-Milwaukee is looking for a creative and talented individual to join our scientific computing team. You will support operations of the Einstein@Home volunteer distributed computing project through the design and administration of server systems as well as software development and deployment. In collaboration with top scientists and technical staff in the USA and Germany, you will be working in an active research area on cutting edge computing challenges.

Einstein@Home (einstein.phys.uwm.edu) is an ambitious astrophysics project funded by the National Science Foundation. It discovers new neutron stars from their weak astrophysical signals by using computing power donated by hundreds of thousands of volunteers from around the world. Einstein@Home searches data from the Laser Interferometer Gravitational-wave Observatory (LIGO) detectors, from the Arecibo Radio Observatory, and from NASA's orbiting Fermi Gamma-ray Space Telescope.

The CGCA at UW-Milwaukee offers an exciting and friendly environment in which to work and play. We have a world-class scientific computing team that operates large-scale data analysis computing systems and develops data analysis methods and software for LIGO and other astronomy projects. With almost forty faculty, staff, postdocs, and students, the center is a fun and vibrant place to work.

RESPONSIBILITIES
Maintain, enhance, and support the Einstein@Home computing infrastructure at UW-Milwaukee, including high-availability mirrored project web servers, database servers, and storage servers. Help to develop, maintain, and improve the Berkeley Open Infrastructure for Network Computing (BOINC) software base used by Einstein@Home. Be responsible for the definition, architecture, implementation, and operation of enhancements that improve the scientific productivity of Einstein@Home. Keep current on computing and software trends to identify new technologies that can be effectively leveraged for this purpose.

QUALIFICATIONS
Have a PhD in Physics, Computing Science or a related field, a minimum of two years of related research experience beyond the PhD, demonstrated experience with large data sets, and strong analytical troubleshooting skills. Be proficient in at least one high-level scripting language, familiar with C/C++, and comfortable with Linux operating systems. Experience with Debian system administration, SQL databases, Apache, Drupal, and PHP are desirable. Experience with the hardware setup and configuration of servers, networking, and RAID storage systems is also desirable.

APPLICATION
Apply via http://jobs.uwm.edu/postings/23976. Recruitment will continue until a candidate is hired. Review of applications will begin on October 5, 2015. Applications received after the initial screening date may not be considered. For more information contact Dr. Downes and the Einstein@Home team at cgca-jobs@uwm.edu.
UWM is an AA/EO employer: All applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, sexual orientation, gender identity/expression, disability, or protected veteran status.

Employment will require a criminal background check.