The Desert Research Institute (DRI) is an environmental sciences research organization within the Nevada System of Higher Education. DRI is seeking an innovative scientist with expertise in High Performance Computing to join a team that will support the newly launched Applied Innovation Center in Advanced Analytics (AIC). The AIC will partner with business within and outside Nevada to help translate scientific ideas into practical solutions using fee-based business model called contract innovation services. The AIC environment is similar to a technology start-up. AIC will specialize in one of the highest growth areas for technological innovation and economic impact: information technology, data science, and engineering for intelligent systems and operations. The successful candidate will support advanced computing, programming, and algorithm development for a variety of application domains and various hardware architectures. The hired individual will work as a part of a broader team to promote the success of the AIC and interact with DRI researchers and outside clients to identify solutions that best fit the need of the projects.

Responsibilities for All Innovation Fellows

- Work as part of the AIC team that includes business development, project management, developers, and interns
- As part of the business development team, participate in business development activities and identify important business opportunities with industry and government agencies
- Work with AIC team to engage in R&D on behalf of clients
- Establish and grow investigative professional competency in High Performance Computing
- Generate intellectual property
- Consult with other researchers at DRI
- Author and contribute to grant proposals
- Develop and present informal training classes
- Mentor program developers in preparing deliverables for clients
- Supervise, mentor and direct student interns

*This is a 12-month temporary position but could lead to a regular career opportunity if additional funding becomes available.

REQUIRED QUALIFICATIONS

- US citizenship
- BA or BS in Computer Science, Mathematics, Statistics, or a quantitative field in Science or Engineering from an accredited institution
- Demonstrated expertise in High Performance Computing
- Demonstrated expertise in an object-oriented programming language
- Excellent communicator and enthusiastic team player
- Excellent customer service and ability to interact professionally with internal and external clients
- Self-starter who can take direction but does not require it
- Ability to work independently and to show leadership as exhibited by success in prior project deadlines and goals

PREFERRED QUALIFICATIONS

Greater consideration will be given to those who possess the following skills and attributes:

- Post-Baccalaureate degree(s) in Computer Science, Mathematics, Statistics from and accredited institution
- Demonstrated experience with distributed and shared memory programming and systems
Experience with tools and processes for building, compiling, debugging, profiling, benchmarking and analyzing applications

Excellent familiarity with operating systems (e.g., Linux, Windows) and libraries (e.g., MPI, pthreads, Standard Library, LINPACK/LAPACK)

Knowledge of computational accelerators and programming (e.g., GPU, MIC, FPGA)

CONDITIONS OF EMPLOYMENT
Due to project oversight duties and access of this position to restricted sponsor data, ALL applicants MUST be citizens of the United States. This position requires successful completion of appropriate background verification which may include criminal history, credit history, sex and violent offender registry, education verification, and employment history administered by DRI.

The individual who is offered and accepts this position must provide, within 30 working days of his/her start date, a copy of the transcript(s) of the highest degree he/she has acquired, as awarded by an accredited institute as recognized by the United States Department of Education and/or the Council on Higher Education Accreditation (CHEA).

About DRI and the Positions
These positions are based at DRI's Northern Nevada Science Center in Reno, Nevada, but the successful candidate will be a part of a large, multidisciplinary and multi-institutional teams that includes local businesses, collaborations with companies/organizations as well as DRI’s two main campuses in Reno and Las Vegas, as well as likely interaction with researchers and students from University of Nevada, Reno (www.unr.edu), University of Nevada, Las Vegas (www.unlv.edu) and Truckee Meadows Community College (www.tmcc.edu).

As the environmental research arm of the Nevada System of Higher Education, DRI conducts cutting-edge applied research in air, land and life, and water quality across Nevada, the United States and on every continent. With more than 500 employees and two main campuses, DRI generates nearly $50 million in total annual revenue.

SALARY / BENEFITS
Salary is dependent upon education and experience. DRI’s benefits package for temporary faculty includes health, dental, vision and life insurance, 13.25% retirement contributions with matching by DRI, paid annual and sick leave, and 11 paid holidays. Additionally, there is no state income tax and no social security deduction. See benefits overview: Temporary Faculty Benefits.

APPLICATION / REVIEW PROCESS
To ensure full consideration, submit the following materials to recruit@dri.edu:

1. A cover letter describing your interest in the position, experience, and summary of application areas you could support,
2. Current curriculum vitae, and
3. Current contact information for three professional/work related references.

Submissions failing to meet these requirements will not be considered.

The position will remain open until filled. For questions regarding this position, please call the DRI recruiting office at 775-673-7332. To learn more about the Applied Innovation Center and DRI, visit us at http://www.dri.edu/applied-innovation-center-for-advanced-analytics and www.dri.edu.

The Desert Research Institute (DRI) is an affirmative action/equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity or expression, genetic information, national origin, age, political affiliation, disability status, protected veteran status or any other characteristic protected by law. DRI employs only U.S. citizens and persons lawfully authorized to work in the United States.

March 2015