



Big Science. Big Opportunities.

COMPUTATIONAL SCIENCE

Overview

The Advanced computing methods for Health Sciences (ACH) section in the Computational Science and Engineering Division (CSED) at the Oak Ridge National Laboratory (ORNL) is seeking a Group Leader for Biostatistics and Multiscale Systems Modeling in the Computational Science and Engineering Division (CSED). ACH focuses on biomedical modeling, simulation, and data analytics at scale using high-performance computing to enable scientific discovery in biomedicine and health.

The Biostatistics and Multiscale System Modeling Group develops statistical/Machine Learning/Deep Learning methodology for large scale data analytics in topics related to genomics, text (natural language processing), and imaging applications; develops and incorporates

Date: Jan 14, 2021

Location: Oak Ridge, TN, US, 37831

Company: Oak Ridge National Laboratory

Requisition Id: 4877

AI and data-driven approaches for Molecular Dynamics simulations using exascale high-performance computing and experimental validation (e.g. SNS); and applies AI/ML/DL methods to analyze large scale datasets with protected health data.

Purpose

The Group Leader will provide Research and Development (R&D) leadership to the group that strategically advances science and technology consistent with ORNL's aspiration to be the world's premier R&D institution and ORNL's science culture.

The R&D Group Leader brings together a group of scientists with the primary goal of pursuing global scientific leadership in biomedical simulation, modeling, and data analytics. The Group Leader recruits new candidates, nurtures ORNL's culture among group members, and continues to build and scale up individual excellence and impact in R&D. The R&D Group Leader reports to and

works closely with the R&D Section Head to implement the group's scientific vision; develops group members to enable their career advancement; establishes capabilities that enable programs to excel at the forefront of science and technology; performs R&D to advance the field of knowledge and/or technology in one's respective specialty; sets, implements, and models standards for performance of work consistent with Environment, Safety, Security, Health, and Quality (ESH&Q) requirements and business rules; and ensures a diverse and inclusive work environment where every employee feels safe, heard, and appreciated—a workplace that sets an example for the broader community.

Research

We seek scientists/engineers/analysts that are recognized leaders in biomedical simulation, modeling, and data analytics at scale. They will initiate, lead and perform independent R&D related to high-performance computation in biomedical and health applications on an ongoing basis.

**Have questions about working at ORNL?
I have answers!**

Colin Sanders, Talent Acquisition Partner
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Major Duties/Responsibilities:

Leadership

- Develop a vision and implement a cohesive group research strategy to ensure the success of new and ongoing research projects to position the group for future success.
- Develop and implement plans to exploit new opportunities and/or expand existing efforts.
- Assist staff in setting performance goals consistent with the group's strategy and members' long-term career goals. Provide feedback to address performance issues in a timely manner.
- Provide relevant input to assist the R&D Section Head with staff development while providing direct and impactful guidance to staff on regular basis.
- Attract a quality, diverse pool of top candidates and hire staff members who are committed to world-class R&D and aspire to be the best in their field.
- Lead by example by exercising the principles in ORNL's "Research Code of Conduct" as a guide for proposing, performing, and communicating research
- Coach and mentor staff regarding Battelle's "Safe Conduct of Research" principles
- Lead ESH&Q by example and ensure all work is carried out safely, securely, and in compliance with ORNL policies, standards, and procedures.
- Exemplify a commitment to "One ORNL" by modeling lab expectations for excellence in research, operations, and community engagement, and by working cooperatively to leverage capabilities across the lab.

Service

- Serve as immediate supervisor for staff members in group.
- Encourage staff to "think and dream big," take appropriate risks in their work, and develop skills that will enable them to pursue new ideas, scientific passions, and research programs.
- Advance the reputation of the group members and standing of the group as a whole through establishing collaborations, Professional Society leadership and involvement, and organization of technical events.
- Support group members by consistently reviewing technical products such as proposals, publications, and artifacts to ensure high quality and consistency with ORNL standards.
- Build strong teams across ORNL.
- Connect staff to your scientific network and professional societies.
- Hold regular scientific/technical group meetings and be visible in the labs and workplace.
- Assume front-line responsibility for safety in the group's laboratory; mentor and empower the Laboratory Space Managers to create a strong safety culture.
- Effectively communicate the importance of protecting proprietary or sensitive information and complying with ORNL cybersecurity policies and guidelines.

Accountabilities

- To group staff, for the quality and safety of their work environment and opportunity for professional growth.
- To R&D section head, for world-leading science and technology directions, safe effective, and compliant operations, ownership of assigned staff, facilities, and equipment, and the quality of products and services.
- To customer, for the quality of products and service

Authorities

- Develop a vision and implement a strategy to pursue world-leading science and technology directions for the R&D group.
- Hold staff accountable for performance
- Act to ensure safe and effective operations
- Hire staff
- Certify the technical quality of the group's products and services

Basic Qualifications

- Requires a Ph.D. with a minimum of 6 years relevant experience
- Demonstrated experience in scientific mentorship and leading R&D teams

Preferred Qualifications

- Experience leading biomedical and health data science research and technology development projects dealing with computational, machine learning, and modeling and simulation technologies.
- Demonstrated expertise in HPC applications on leadership computing systems such as the Summit supercomputer or other Leadership Class Facility.
- Experience writing successful R&D proposals to multiple government agencies including NIH, research plans, technical reports to sponsors, and develop and execute on a vision for future research relevant to biomedical and health data science & engineering.
- Ability to function well in a dynamic research environment and set priorities to accomplish broad programmatic and scientific impacts.
- Excellent interpersonal skills, the ability to work independently, outstanding written and oral communication skills and organizational skills.
- Demonstrated ability to effectively interact with senior levels of scientists and administrators involved in technical endeavors.
- A successful record of developing research partnerships and collaborative relationships with universities, industry, and research laboratories.

Relocation

Moving can be overwhelming and expensive. UT-Battelle offers a generous relocation package to ease the transition process. Domestic and international relocation assistance is available for certain positions. If invited to interview, be sure to ask your Recruiter (Talent Acquisition Partner) for details.

For more information about our benefits, working here, and living here, visit the "About" tab at jobs.ornl.gov.

This position will remain open for a minimum of 5 days after which it will close when a qualified candidate is identified and/or hired.

We accept Word (.doc, .docx), Adobe (unsecured .pdf), Rich Text Format (.rtf), and HTML (.htm, .html) up to 5MB in size. Resumes from third party vendors will not be accepted; these resumes will be deleted and the candidates submitted will not be considered for employment.

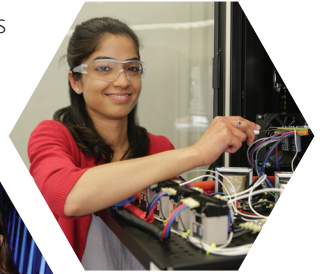
If you have trouble applying for a position, please email ORNLRecruiting@ornl.gov.

ORNL is an equal opportunity employer. All qualified applicants, including individuals with disabilities and protected veterans, are encouraged to apply. UT-Battelle is an E-Verify employer.

Life at Oak Ridge National Laboratory

ORNL is a thriving multiprogram research campus with world-leading facilities and talented employees from over 60 countries who are innovators in their fields. We offer opportunities to collaborate on cutting-edge scientific, operational, engineering, and support activities. In addition, ORNL provides professional development training at no cost to employees to help them grow in their careers. ORNL proudly supports numerous employee resource groups—for veterans, women, African Americans, and more—that support diversity and inclusion efforts across the lab and provide networking opportunities.

ORNL was established in 1943 during the Manhattan Project. Today, with over 5,000 research and mission support staff and 3,200 researchers visiting annually, ORNL is America's largest science and energy laboratory.



Ideal Location

Located near the Great Smoky Mountains, ORNL's campus is just 1 hour away from the national park. Within a day's drive of all major cities on the East Coast, ORNL provides the best of both worlds: proximity to the great outdoors and growing urban centers with diverse cultural attractions. The city of Oak Ridge, Tennessee, has 150 miles of shoreline for water recreation, rowing, and boating, and nearby Knoxville, Tennessee, is home to the thriving research campus of the University of Tennessee and a historic downtown known for its dining, theaters, shopping, and cultural and music festivals.

In addition, East Tennessee is affordable, with a cost of living over 17 percent lower* than the national average and no state income tax. It is one of the safest areas in the United States and has excellent school systems, including the Oak Ridge School District, one of two districts in the world that are K-12 STEM certified.

* bestplaces.net

Total Rewards and Amenities

Combined with competitive salaries, ORNL offers employees and their families a comprehensive and valuable benefits program. ORNL also has numerous on-site amenities that make life more convenient.



401(k) Retirement Plan



Generous Vacation and Holidays



Pension Plan



Parental Leave



Medical Plan (Dental, Vision, and Health Savings Accounts)



Employee Assistance Program



Wellness Programs



Employee Discounts



Flexible Working Hours



Life Insurance



Educational Assistance



Disability Benefits



Relocation Assistance



Legal Insurance with Identity Theft Protection



Bank



Coffee Shop



Cafeteria



Gym



Exercise Classes



On-Site General Medical Clinic



Walking Trails

2021-G00087/AM

January 2021