Job Title: Scientific Group Leader, Multimodal Data Analytics

Requisition Id 8642

Overview:
The Advanced Computing Methods for Health Sciences (ACH) section in the Computational Science and Engineering Division (CSED) at Oak Ridge National Laboratory (ORNL) is seeking a Group Leader for Multimodal Data Analytics (MDA) 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 Multimodal Data Analytics Group leverages expertise in large scale biomedical informatics and statistical genetics implementations to build and use tools in the parallel healthcare needs space; creates scalable solutions of AI, ML and DL for multi-dimensional, multi-modal data on HPC environments applied to health; and develops and implements AI/DL methods for image and data analytics.

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 AI-driven biomedical simulation, modeling, and synthetic data generation. The Group Leader recruits 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.

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 sponsors, for the quality and integrity of research products.

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 and nurture 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.
- 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.

Benefits at ORNL
ORNL offers competitive pay and benefits programs to attract and retain talented people. The laboratory offers many employee benefits, including medical and retirement plans and flexible work hours, to help you and your family live happy and healthy. Employee amenities such as on-site fitness, banking, and cafeteria facilities are also provided for convenience.
LI-KC1

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.