

Texas Tech University High Performance Computing Center Director's Select Graduate Research Assistant (GRA) Opportunity

The Texas Tech University High Performance Computing Center (HPCC) is currently seeking a highly motivated candidate to fill a position as Director's Select Graduate Research Assistant (GRA) on a continuing basis beginning in the Fall 2023 term. This position offers full GRA salary and tuition support and is exclusively available to graduate students.

Role Description: This position is designed to offer hands-on experience in the operational conditions for high-performance computing, directly benefiting students' research pursuits. The candidate should ideally apply early in their career as a student. The selected GRA will play a crucial role working with HPCC staff on topics related to advanced computing including cluster design, configuration, operations, and optimization while using these topics as a basis to conduct research relevant to their graduate degree.

Minimum Requirements: The candidate must meet the following requirements:

- Candidates must be pursuing a Ph.D in computer science or other computationally intensive discipline such as (but not limited to) quantum chemistry, mechanical engineering, chemical engineering, molecular dynamics, physics, or bioinformatics, and be passionate about advancing the state of computing in their academic research field.

Preferred Qualifications: Candidates with additional qualifications demonstrating exceptional academic or research acumen will be given high regard during the selection process, e.g., journal or conference publications, mentorship experience, and/or previous outreach activities.

Duties: Accepted candidates will have the following duties as part of this position:

- Define their research direction on a forefront topic in coordination with and with the approval of the HPCC Managing Director and their academic supervisor.
- Actively pursue new research opportunities that align with their academic curriculum and that advance the state of the art in computing in ways suitable for PhD-level research.
- Undertake assigned tasks across various areas, including but not limited to developing, testing, debugging, improving, and prototyping advanced scientific and engineering computational methods and software, exploring and optimizing the usage of new hardware and software, and providing in-depth support as required by their immediate supervisor or HPCC staff.

Position Details: The GRA must be enrolled for at least 9 credit hours to be eligible for this exempt position. This is a **12-month appointment** with an expected commitment of 20 hours of work per week. Please note that this is a **Security Sensitive Level II** position. Applicants will be subject to a criminal background check and must pass a pre-employment drug and alcohol test after receiving a conditional offer of employment, but before final confirmation of employment.

How to Apply: The position will be open until filled. Review of initial candidates will begin September 1, 2023. Prospective students who meet the qualifications for this opportunity should submit their CV, cover letter, and transcripts to hpcsupport@ttu.edu by August 31, 2023 for full consideration.

At Texas Tech University, we are committed to fostering a diverse and inclusive academic community. We encourage all qualified candidates to apply for this Director's Select Graduate Research Assistant position and join us in making significant advancements in the field of high-performance computing. Should you have any questions or need further information, please do not hesitate to contact us at the provided email address.