

Post-Doctoral Position in Theoretical/Computational Atomic, Molecular, and Optical Physics Drake University

A post-doctoral position in theoretical/computational AMO physics is available at Drake University. The appointment will be made on an annual basis, **beginning on or after March 1, 2022**. The position may be extended depending on performance and continued external funding. The successful candidate is expected to be involved in updating and maintaining a general suite of computer codes based on the B-spline R-matrix (BSR), which is currently available on the [Atomic, Molecular, and Optical Sciences Gateway](#). Hence, excellent written and oral communication skills in English are required.

A significant part of the workload will also be allocated to calculations for photon and electron collisions with complex atoms and ions. Particular emphasis will be placed on benchmark calculations of data relevant for plasma applications and the treatment of time-dependent, short-pulse, intense-laser processes using both the single-active-electron (SAE) approximation and the general multi-electron R-matrix with time-dependence (RMT) approach, including the use of input generated by the BSR code. Significant supercomputer resources are expected to be available for the project. Working with massively parallel computing architectures will therefore be a substantial part of the work.

Review of applications will begin immediately and continue until the position is filled. Drake University requires a formal application to be submitted through their HireTouch site:

<https://drake.hiretouch.com/job-details?jobID=73762&job=research-scholar-997784>

For questions about the position, please contact

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