

**Postdoctoral Research Associate
Rensselaer Polytechnic Institute, Troy, NY**

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Posted Feb. 20, 2024, set to expire Jun. 21, 2024

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| Job Title | Postdoctoral Research Associate |
| Department | Scientific Computation Research Center http://www.scorec.rpi.edu/ |
| Institution | Rensselaer Polytechnic Institute, Troy, NY Troy, New York |
| Date Posted | Feb. 20, 2024 |
| Application Deadline | Open until filled |
| Position Start Date | Available immediately |
| Job Categories | Post-Doc |
| Academic Field(s) | Computer Science Computer Engineering |

Apply By Email

Job Description

The Scientific Computation Research Center (www.scorec.rpi.edu) at Rensselaer is seeking a highly motivated individual to develop unstructured mesh, and associated software, to be applied to the modeling of fusion systems. The successful candidates must be able to interact with faculty and students at Rensselaer as well as computational physicists and computer scientist at partner universities and DOE laboratories.

Qualifications:

- PhD in Computer/Computational Science, Computational Physics, Applied Mathematics, or related engineering or science discipline.

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- Have expertise in a subset of the areas listed and interest in interacting closely with others that provide expertise in the other areas: o Development and optimization of Particle in Cell methods, o Applying machine learning technologies, o Simulation methods to model various fusion reactor physics, and/or o Unstructured mesh technologies.
- Experience in parallel programming and high-performance computing with emphasis on next generation HPC systems.
- Good knowledge of a subset of C++, C, Python and/or FORTRAN programming languages and GNU/Linux operating system is required.
- Knowledge of modern software engineering tools will be considered favorably.

To apply, please email Professor. Mark Shephard at shephard@rpi.edu.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Prof. Mark Shephard
Scientific Computation Research Center
Rensselaer Polytechnic Institute

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Contact E-mail shephard@rpi.edu