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## Senior High Performance Computing Developer

### **Job Title:**

Senior High Performance Computing Developer

### **Location:**

Austin, Texas - Seattle, Washington - Lebanon, New Hampshire - State College, Pennsylvania, USA

### **Reference Code:**

KF-HPC-124

CD-adapco is seeking software development professionals with experience in parallel and high-performance computing to contribute to our flagship multi-physics software, STAR-CCM+. As a member of an experienced team, your responsibility will be to ensure efficient operation and good scaling of both new and existing code on parallel platforms.

The ideal candidate will have a masters or PhD in computer science or engineering plus 4-5 years of professional, HPC-specific experience, although exceptional recent graduates will be considered. Experience in the following is desired:

- HPC
- MPI
- distributed parallel programming
- multiple-threaded development
- scientific computing
- object oriented programming
- performance tuning
- profiling tools such as Vtune, valgrind
- expert in C++ and object oriented development

In our search, we will give preferential consideration to those candidates with:

- a sound understanding of algorithmic complexity
- commercial, industrial, or government CFD development experience
- domain decomposition method/framework experience
- skill in identifying computational, memory, and scalability bottlenecks
- expertise in writing cohesive, well-structured code
- an understanding of computer architecture/hardware (particularly parallel) as it relates to both high level HPC design and low-level optimization.
- ability to work both independently and as part of a distributed team

All qualified applications should be made by e-mailing a CV/resume to [hr-us@cd-adapco.com](mailto:hr-us@cd-adapco.com)

[1] Please reference **?Senior High Performance Computing Developer - KF-HPC-124 - multiple locations?** in the subject line.

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If you are an individual with a disability and would like to contact us regarding the accessibility of our site, need assistance completing the application process or would like to request a reasonable accommodation, please contact the Human Resources Manager at [hr-us@cd-adapco.com](mailto:hr-us@cd-adapco.com) [1] .

## About CD-adapco

CD-adapco is the world's largest independent CFD focused provider of engineering simulation software, support and services. We have over 30 years of experience in delivering industrial strength engineering simulation. The scope of our activities extends well beyond software development to encompass a wide range of CAE engineering services in both CFD and FEA.

We have over 7,000 users of our software, working at 3,000 different companies, spending over \$100 million on our software and services. Our customer approval ratings are very high; in our last customer survey 93% of our customers declared themselves satisfied, or very satisfied with our software and services, a fact reflected in a consistently high customer retention rate.

Consistently growing at an organic rate of over 17% per year, CD-adapco employs over 700 talented individuals, working at 21 offices around the globe, involved in dedicated support, software development and engineering services.

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**Source URL:** <http://www.cd-adapco.com/jobs/senior-high-performance-computing-developer>

### Links:

[1] <mailto:hr-us@cd-adapco.com>