



## Software Engineer – (entry- to mid-level)

EP Analytics, Inc. San Diego, CA

### Job Description

EP Analytics is looking for talented software engineers to join our team and contribute towards modernizing large-scale scientific codes that are designed to run on massively parallel high performance computing (HPC) systems. Code modernization will include, for example, working directly with application scientists to port/optimize codes to new/upcoming HPC architectures (e.g., Intel Xeon Phi and ARM) and incorporating continuous integration (CI) tools/frameworks (e.g., Travis-CI and Jenkins) to the mainstream application development/testing. We do not need you to be an expert in parallel or high performance computing but we need someone with a strong computer science/computer engineering foundation who has mastery of at least one programming language (C, C++, or Java) and the ability to quickly pick up other languages and software packages as need be. In this position, you will help us evaluate current and future high performance and parallel computing platforms. You will help us extend our unique performance analysis tool suite programmed in C, C++, and Java and in developing a Graphical User Interface (GUI) to present the analyses in an intuitive fashion to the end users. You will need to also delve into FORTRAN to evaluate legacy HPC applications. You will contribute to writing proposals, presentations, and reports; and meeting with and presenting to project sponsors and clients (i.e., you need to be a good communicator). We need someone smart, flexible, and who can wear multiple hats like the rest of the team.

### Responsibilities

- Working with application code developers to modernize legacy HPC codes
- Integrating Continuous Integration (CI) methodologies such as Jenkins and Travis-CI to mainstream software development; developing unit-tests and modular test infrastructures for large codes
- Developing GUI frameworks using Python
- Developing reports, briefings, and documentation.
- Supporting presentations to company management and project sponsors.
- Supporting proposal efforts for new contracts and projects.

### Requirements

- BS/MS in CS or EE.
- 0-5 years of software development experience.
- Proficient in C/C++ programming and Python; demonstrate knowledge of or ability to quickly learn other languages.
- Ability to work independently and in a fluid, small team environment.
- Excellent written and oral communication skills.
- For compliance with ITAR/EAR regulations, some positions may require U.S. citizenship or permanent residency.

Including examples of past projects in the relevant areas will streamline the review process.

### About EP Analytics, Inc.

EP Analytics was founded by leading HPC researchers from the University of California, San Diego, and has funded projects for government and commercial customers involving performance analysis of parallel, hyperscale, and cloud computing systems and energy-efficient high performance computing architectures. We are looking for more "A" players to join our existing



team in growing the company. We offer benefits including generous paid vacation and holidays, 401k plan, profit sharing plan, and healthcare reimbursement.

To apply, email resume and cover letter to [info@epanalytics.com](mailto:info@epanalytics.com)



## Software Engineer – HPC Software Tools (entry level)

EP Analytics, Inc. San Diego, CA

### Job Description

We are in the process of developing HPC performance tuning and profiling tools for current and emerging technologies (x86, Xeon Phi and ARM) and have an opening for a new member to join our team. We are seeking an individual with interest and knowledge of CPU instruction set architectures, memory management, compilers, assemblers, linkers, loaders, and software development. The successful candidate will contribute to writing proposals, presentations, and reports; and meeting with and presenting to project sponsors and customers. This is an opportunity to get in on the ground floor of a small, growing company. Flexibility and the ability to context switch and wear multiple hats are essential.

### Responsibilities

- Working as a member of a small team, design, develop, and debug binary instrumentation tools for x86 and/or ARM ISAs.
- Design and develop interfaces and APIs to higher level layers and databases that will consume BI data.
- Develop reports, briefings, and documentation.
- Support presentations to company management and project sponsors.
- Support proposal efforts for new contracts and projects.

### Requirements

- BS/MS in CS or EE.
- 0-3 years of software development experience.
- Proficient in C programming; demonstrate knowledge of or ability to quickly learn assembly languages.
- Knowledge of or coursework in specific CPU microarchitectures and ISAs (especially x86/ARM/POWER) desirable.
- Ability to work independently and in a fluid, small team environment.
- Excellent written and oral communication skills.
- For compliance with ITAR/EAR regulations, some positions may require U.S. citizenship or permanent residency.

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## Software Engineer – HPC Software Tools (mid-level)

EP Analytics, Inc. San Diego, CA

### Job Description

We are in the process of developing HPC performance tuning and profiling tools for current and emerging technologies (x86, Xeon Phi and ARM). We are seeking a new member of our team who will lead development of the binary instrumentation/rewriting layer of our tools. This work requires proficiency in system/low-level programming and knowledge of CPU instruction set architectures, memory management, compilers, assemblers, linkers, loaders, etc. The successful candidate will lead and write proposals, business plans, presentations, and reports; and will meet with and present to project sponsors, investors and customers. This is an opportunity to get in on the ground floor of a small, growing company. Leadership, flexibility and the ability to context switch and wear multiple hats are essential.

### Responsibilities

- Reporting to the Director of Research Operations, lead the design, development, and debugging of binary instrumentation layers for x86 and/or ARM ISAs.
- Lead design and development of interfaces and APIs to higher level tool layers and databases that will consume BI data.
- Develop reports, briefings, and documentation.
- Present to company management and project sponsors.
- Support business development and proposal efforts for new contracts and projects.

### Requirements

- MS/PhD in CS or EE.
- 3-7 years of software development experience.
- Proficient in C programming; demonstrate knowledge/experience or ability to quickly learn assembly languages.
- Knowledge/experience in specific CPU microarchitectures and ISAs (especially x86/ARM/POWER) highly desirable.
- Ability to work independently and in a fluid, small team environment. Ability to lead a small team highly desirable.
- Excellent written and oral communication skills.
- For compliance with ITAR/EAR regulations, some positions may require U.S. citizenship or permanent residency.

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