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## SOFTWARE ENGINEER WITH PHYSICAL SCIENCE BACKGROUND

### Career Opportunity

K&C is seeking a highly talented Software Engineer (or related discipline) with a background in the physical sciences and strong mathematics skills (linear algebra and multivariate calculus). The ideal candidate must have programming experience with C or C++ and PYTHON or another object-oriented language; have a solid understanding of object oriented as well as functional programming paradigms; and understand and have an interest in software engineering best practices. Other nice-to-haves include experience developing GUI applications; solving quantitative problems; a solid knowledge of algorithms and computational complexity; and experience working with large data sets such as those produced by finite element and/or computational fluid dynamics codes. Familiarity with a data visualization/manipulation software system like VTK is also a plus.

A successful candidate must be able to work, think, and innovate independently in a fast-paced work environment with challenging time constraints. The ability to multi-task and work on projects that require varying skill-sets simultaneously is a must.

### Candidate Requirements

- BS, MS, or PhD in Computer Science or Related Quantitative Science Field such as Astronomy, Physics, Applied Mathematics or Chemistry.
- 3.5+ GPA for Graduate and/or Undergraduate Degrees.
- Strong math skills including linear algebra and multivariate calculus.
- Minimum 1-2 years' professional software engineering experience.
- Experience with and interest in software engineering best practices.
- Experience with C or C++, Python and Numpy/Matplotlib (or a similar open source development and analysis stack), FORTRAN and LINUX OS.
- Interest in solving highly technical and challenging science and engineering problems.
- U.S. Citizen.

### Company Description

Karagozian & Case, Inc. (K&C) is an internationally recognized science and engineering consulting firm that was founded in 1945. K&C's mission is to be the leader in innovating and fielding: 1) engineering software tools, 2) high-fidelity physics-based computational tools, 3) structural and mechanical systems, and 4) engineering services by leveraging state-of-the-art research, analysis, and design methods. K&C serves clients in the defense, counterterrorism, construction, manufacturing, space, energy, and insurance industries. Our strength lies in our team of experts and our culture of collaboration.

K&C's services commonly fall into the following functional areas of expertise.

- Modeling, simulation, and analysis.
- Applied research and testing.
- Product and software development.
- Protective design.
- Threat and vulnerability assessments.

### Contact Information

Interested candidates should send a resume and cover letter to [careers@kcse.com](mailto:careers@kcse.com).