

System Performance and Analysis Group

*Johns Hopkins University
Applied Physics Laboratory
Job ID: 21271*

Sep 28, 2019

Dear Team Hiring Manager,

As a motivated technologist, I am interested in joining your team as a Data Scientist to contribute toward our nation's security. I would like to apply for position ID 21271.

I am currently a post-doctoral scholar at the University of California, Berkeley with expertise in data analysis, and computational physics simulations working in the area of particle/nuclear physics.

With regard to my ability to meet specific requirements of this job:

- **Education:** PhD in experimental high energy particle physics (2016) with emphasis on data analysis and algorithm software development in Python/C++/ROOT for novel particle detection technologies. Double BS degree in Mathematics/Physics.
- **Experience in data visualization:** 8 years of experience working on analyzing large data sets using statistical analysis tools in Python/C++/ROOT.
- **Experience in data cleaning and automating processes:** Extensive experience in data formatting using Regex, and automating processes using Python/BASH.
- **Willing and able to travel:** Yes. Current position already requires traveling abroad at least once a year.
- **Ability to obtain security clearance:** US citizen.
- **Experience drawing conclusions from large data sets:** Developed algorithm to statistically analyze direction of incoming neutrino in simulated large data sets containing millions of physics "events". Routinely utilize statistical analysis tools to analyze physical/simulated large data sets.
- **Can create graphical user interfaces:** Some experience using Qt, OpenGL, ROOT libraries for developing graphical user interfaces.
- **Have experience with statistical language:** Some experience using R.

I would appreciate an opportunity to meet and discuss my application at an interview. I have also sent my resume for your consideration. Please feel free to let me know if you have any questions.

Thank you for your time,

Michinari Sakai

Michinari Sakai

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