Applied Physics Laboratory   October 26, 2019
Johns Hopkins University
Job ID: 20770

Dear Team Hiring Manager,

As a budding physicist, I am interested in joining your team as a Computational Physicist/Engineer to contribute toward our nation's security. I would like to apply for position ID 20770.

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

With regard to my ability to meet specific requirements of this job:
- **Education:** PhD in experimental particle physics (2016) with emphasis on computational physics modeling/simulations, data analysis, and algorithm development for novel particle detection technologies.
- **Experience in computational physics:** 8 years of experience working with GEANT4 modeling particle/radiation transport, nuclear decays, photon propagation, and their effects on real hardware. Post-doctoral work involves mechanical stress/thermal simulations using SolidWorks/ComSol.
- **Scientific/engineering programming experience:** Over 9 years of experience with C/C++/ROOT, 4 years of experience with Python and FORTRAN working on data analysis and algorithm development for physics experiments.
- **Can work independently as well as collaboratively:** Worked with 3 multi-national collaborations of physicists and engineers in Japan, Italy, and US. Contributed independent original work to specific area of research within collaborations.
- **Oral and written communication skills:** Contributed work published in various journals. Talks given at institutions such as Lawrence Livermore National Laboratory, Sanford Underground Research Facility, Fermilab, Argonne National Laboratory. Mentored PhD-level students at UC Berkeley/UCLA and increased productivity by organizing group initiatives.
- **Willing and able to travel and attend meetings:** Yes.
- **Comfortable working in closed areas:** Yes.
- **Ability to obtain a secret level security clearance:** US citizen.

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
1235 Solano Ave Apt 10 – Albany, CA 94706 – USA
(808)-206-4357 • michsakai@gmail.com