

**Radiation Control Department**  
*Jefferson Lab*  
*Job ID: 12064*

November 30, 2019

Dear Team Hiring Manager,

I am interested in joining your team as a Radiation Physicist in the Radiation Control Department at Jefferson Lab. I would like to apply for position ID 12064.

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 radiation transport modeling/simulations, data analysis, and algorithm development.
- **Familiar with radiation detection:** Graduate and post-doctoral work involved nuclear decay, cosmogenic, and environmental radiation modeling and analysis.
- **Proficient in programming, data acquisition and reduction techniques:** Over 9 years of experience with C/C++/ROOT, 4 years of experience with Python working on data analysis. Current work involves data acquisition/reduction using LabView and custom python code.
- **Experience with radiation transport simulation:** 8 years of experience working with GEANT4 modeling particle/radiation transport, nuclear decays, photon propagation, and their effects on hardware.
- **Communication and presentation skills:** Contributed work published in various journals. Talks given at institutions such as Sanford Underground Research Facility, Fermilab, Argonne National Laboratory. Mentored PhD-level students and increased productivity by organizing group initiatives.

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**

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