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## COVER LETTER

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Dr. Misa Cowee,

Space Science & Applications Group  
Los Alamos National Laboratory  
P.O. Box 1663  
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It is a pleasure to submit my cover letter and résumé for position IRC59421 in the Space Science & Application Group at Los Alamos National Laboratory. With significant experience in MCNP and Python, including the modeling and simulating of detectors and their responses, I am ready to become an immediate and effective member of your team. For your consideration, I provide the following summary of my knowledge, skills, and accomplishments most relevant to this position:

- Master's Degrees in Nuclear Engineering from the University of Wisconsin - Madison and Biophysics from the Medical College of Wisconsin
- A combined six years of research and technical experience in the physical sciences
- Gained knowledge and experience on the design and performance of variety of radiation detector systems while collaborating with ISR-1 on the Nuclear Detection Figure of Merit (NDFOM) project
- Performed detailed modeling and simulation of radiation detectors and their environment, demonstrated with the NDFOM project and through recent publications and developments within MCNP (Pub. 1)
- Performed statistical and data analysis for a variety of applications, such as large clinical imaging cohorts and multiple simulation results, using multiple software tools including Python, R, and Matlab
- Significant experience in proper software development methods, such as software design, unit testing, verification, and performance assessment
- Effective in technical communication, demonstrated through a history of accepted abstracts, publications, and conference presentations in multiple different fields (detailed publication list in my résumé)
- Patented a segmented reconstruction method for reducing artifacts in Magnetic Resonance Imaging
- Collaborated on large-scale technical reports, including a National Institutes of Health research grant and the soon-to-be-released *MCNP6.2 User's Manual* (Pub. 2)
- Proven ability to work and communicate with a diverse research team, demonstrated through collaboration on projects involving medical doctors, imaging technicians, research scientists, and other students
- Previously acquired DOE Q-level security clearance, and paperwork submitted June, 2016 for its reinstatement

With a wide range of experiences at Los Alamos National Laboratory, I look forward to continuing my career serving the ISR-1 mission. Attached to this application, you will find my résumé for your review. I appreciate your consideration and thank you for your time.

Sincerely,  
Casey Anderson, M.Sc.

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## SELECTED PUBLICATIONS

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1. Casey Anderson and Gregg McKinney. "MCNP6 Built-in High Level Detector Responses". In: *2017 IEEE Nuclear Science Symposium and Medical Imaging Conference*. (Atlanta, Georgia). Oct. 2017,
2. "MCNP6.2 User's Manual". In: *LANL report: TBD* (2017)