

Personal Information

Address: 1599A 39th Street
Los Alamos, NM 87544
Phone: +1 (920) 858-8783
Email: casey.alan.anderson@gmail.com

CASEY A. ANDERSON

<https://www.linkedin.com/in/caseyalananderson>

Work Information

Address: P.O. Box 1663
Los Alamos, NM 87545
Phone: +1 (505) 667-5968
Email: casey_a@lanl.gov

Cover Letter

Dr. Misa Cowee,

Space Science & Applications Group
Los Alamos National Laboratory
P.O. Box 1663
Los Alamos, NM 87545

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 the ISR-1 team.

Below is a summary of my knowledge, skills, and accomplishments relevant to this position:

- Master's Degrees in Nuclear Engineering from the University of Wisconsin - Madison and Biophysics from the Medical College of Wisconsin with a combined six years of research experience in the physical sciences
- Collaborated with ISR-1 on the Nuclear Detection Figure of Merit (NDFOM) project, gaining knowledge and experience on the design and performance of a variety of radiation detector systems
- 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
- Demonstrated collaborator of large-scale reports, including a contributing editor of the *NDFOM User's Manual* 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 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.

Selected Publications

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)