

Joshua Grant

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David Wickland
Director of Research and Engineering
Cerebral Diagnostics Canada Inc.
810 Queen St. East
Toronto, ON, M4M 1H7

Dear David Wickland,

With graduate education and research in mathematical biology, aptitude to solve complex mathematical and scientific problems, and a strong sense of initiative and work ethic, I would like to apply for the position of **Junior Scientist/Engineer** with Cerebral Diagnostics. With the aforementioned qualities, I am an excellent candidate for this position.

In terms of technical qualifications, I am currently completing a Master's degree in applied mathematics, in the research area of mathematical biology. In addition to my core research, evolutionary theory and the evolution of cooperation, I also have knowledge of neural networks and delay differential equations, as well as a general knowledge of neuroscience. As well, I have experience in various aspects of mathematical modeling, including model derivation and verification. This experience encompasses qualitative analysis of differential equations, stochastic processes, Fourier and wavelet analysis, and use of statistical techniques such as regression analysis. These are skills which I am comfortable employing in an applied setting, and would be an asset in the mathematical aspects of work done by your company.

Computing and programming abilities are another benefit I provide. I have experience in Monte Carlo and individual-based simulation, with particular emphasis in area of mathematical biology. In implementing such simulations, I have become proficient in C, C++ and Perl programming languages, as well as shell scripting and task automation. In using tools such as Matlab, I am also well versed in numerical methods and scientific programming. I have experience using the Signal Processing toolbox in Matlab via my numerical method training.

Lastly, in addition to my technical qualifications, I also have an outgoing personality conducive to inter-personal communication. I am a self-starter who can both take initiative as well as follow the leadership of others. In addition, of responsibility and dedication to the current project I am working on. I believe these characteristics make me a prime candidate for the position. I have also included my resume for your consideration, and would be very appreciative to receive further consideration. Thank you for this opportunity.

Sincerely,

Josh Grant