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To Whom it May Concern,

Re: "Unsolicited Application"

I would like to take the opportunity to submit an unsolicited application (req7114), having seen this opportunity advertised online, following the Careers Day. Although I registered to attend, I was unable to participate at short notice because my daughter was ill; I apologize for any inconvenience.

After reviewing the opportunities on your website, I believe I would be a strong fit for either the "Systems Engineer AI & Data Analytics" (req7133) or "Simulation Software Engineer" (req6972) positions.

I am an applied mathematician by training, and the topic of my PhD was inspired by a means to generate electricity for satellites in geostationary orbit. I have worked at the interface between academic research and industry for over ten years, in the United Kingdom and Germany, primarily in therapy and imaging with medical ultrasound but also in other areas, such as image reconstruction and the modelling of microwave propagation within the body. As such I am familiar with many types of mathematical models and am able to quickly learn from the physics of the problem what the best numerical approach and deployment could be, given constraints such as computational resources.

Furthermore, I have worked in inter-disciplinary teams and can understanding problems from multiple perspectives, and communicating these between teams with different technical backgrounds.

I have used my mathematical skills and experience to write high-performance, well-documented, well tested, deployable code, compliant with technical standards, such as ISO 13485 and IEC 62304. I have many of the core technical skills which are required: C++, Python, MATLAB, Linux, software testing, continuous integration and deployment in GitHub/GitLab, issue tracking with JIRA.

I am applying as there are structural changes at my current role which may reduce opportunities for development. I am enthusiastic about this role as it combines cutting-edge technology with a growing industry. I can speak German to B2 level, and am continuing to improve my German communication skills.

Please find enclosed my résumé, and let me know if you require any additional information.

Yours faithfully,

David Sinden

Attached: Résumé