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**Roche**  
**Penzberg, Bavaria, Germany**

Dear Hiring Manager,

Ref: Application for the position Biostatistician in Personalized Healthcare

I am writing to express my interest in Biostatistician in Personalized healthcare position available in your highly revered company. I have an MSc. in Biostatistics (UHasselt, 2017) and a PhD in Statistics (KU Leuven, 2021). I have worked as a biostatistician in the medical and pharmaceutical industries where I have accumulated years of applied statistical experience. I am interested in joining your team to have a first-hand experience in the application of statistics in personalized healthcare where I have limited experience.

My time at the KEMRI-Wellcome Trust Research Program (Kenya) exposed me to medical data where I worked on epidemiological, clinical and laboratory data on patients admitted to a hospital. I was involved in the data management and analysis of these data on uptake of vaccines for multiple diseases. While this experience was fascinating, it was clear to me that I needed to expand my knowledge in the application of statistics in healthcare. This led to me to exploring three opportunities:

1. Msc Biostatistics, UHasselt (2017, distinction)

At UHasselt, I delved deeper into advanced statistical methods which I believe will be of relevance for this position including but not limited to classification, survival models, introduction to clinical trials, longitudinal and missing data models. I also did a thesis in collaboration with Janssen pharmaceuticals on developing statistical approaches useful for selection of compounds in vaccines development.

2. PhD Statistics, KU Leuven (2021)

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During the PhD, I worked on statistical models for discrete choice experiments which are especially useful in health economics where patient preferences regarding which treatment they would prefer are investigated. I also learned how to manage projects with timelines, work independently and as part of a team and effectively communicate to audiences with different backgrounds.

### 3. PostDoc in Statistics, Janssen Pharma

I spent two years at Janssen as a postdoc in non-clinical statistics where I was involved in projects aimed at ensuring quality of an approved vaccine is maintained throughout its lifetime (shelf life) and that the manufacturing process can consistently produce a product of good quality. In this role, I extensively used Bayesian methods and designed and analyzed experiments.

I am applying for this position because although I have interacted with clinical and patient preferences data before and have become more comfortable in statistics, I still have a dearth of knowledge in the application of statistics in personalized healthcare which is an area that your team has extensive expertise in. I intend to spend my career in pharmaceutical research because this is one area that I believe will have the highest contribution to patient survival and quality of life worldwide. Playing a part in increasing patients' survival and quality of life is my ultimate goal. As such, I would like to dedicate more time to this important component of health research. To the best of my knowledge, your team and the work you do in personalized healthcare is the most ideal combination to accomplish this desire.

Accompanying this letter is my CV which enumerates my strength as a statistician as well as other skills that are relevant for the role. My referees are available on request to provide reference letters. I would be delighted to be considered for an interview to learn more about a position and share my motivation for working with your team.

Sincerely,

**Maaya, Leonard**