

Janssen Pharmaceutica NV

July 27, 2023

TURNHOUTSEWEG 30
B-2340 BEERSE, BELGIË

Job Application for Scientist

Dear Application Committee,

I am thrilled about the opportunity to submit my application for the **Scientist** position at **Johnson & Johnson**, as advertised on LinkedIn. With my expertise in X-ray tomography imaging, image analysis, and Python programming, hands-on attitude, combined with my in-depth understanding of the drug development process, I am confident that I possess the unique skill set required to excel in this role.

As a PhD researcher in an interdisciplinary field at the esteemed Centre for X-ray Tomography at Ghent University (UGCT), I have acquired in-depth knowledge and hands-on experience in high-resolution imaging using X-ray tomography. Throughout my research, I have successfully utilized X-ray tomography to analyze the dissolution behavior of pharmaceutical tablets. To facilitate this, I have developed a novel flow-through cell dissolution apparatus. This apparatus can be easily integrated into an X-ray tomography setup, enabling real-time visualization and quantitative analysis of the dynamic process. Furthermore, I have honed my skills in utilizing various image analysis software such as Dragonfly, ImageJ, Octopus packages (an in-house developed software package). Additionally, my proficiency in Python programming enabled the development and implementation of image analysis algorithms, facilitating successful object detection, segmentation, classification, and extraction of meaningful insights from complex data.

In addition to my technical expertise, I have excelled as both an independent researcher and a collaborative team member throughout my educational journey. I have successfully undertaken research projects, taking full responsibility for their design, execution, and analysis, demonstrating my self-motivation, problem-solving skills, and time management abilities. I have actively engaged in interdisciplinary collaborations, contributing expertise and gaining insights from diverse backgrounds. Moreover, my strong communication skills, showcased through publications, conference presentations, and internal meetings, enable me to effectively convey complex technical concepts to diverse audiences.

My profound passion lies in advancing drug discovery, as I firmly believe in its potential to alleviate human suffering, extend lives, and bring hope and healing to those in need. Through my collaborations with pharmaceutical scientists, I have gained valuable insights into the intricacies of the drug discovery and clinical development processes.

The prospect of an industry-based postdoctoral research position holds great appeal to me due to its practical applications, access to advanced resources, and opportunities for multidisciplinary collaborations. It also offers the potential for valuable industry connections and enhanced career prospects. I am particularly drawn to Johnson & Johnson, a leading pharmaceutical company renowned for its dedication to cutting-edge research and innovation for the treatment of challenging and complex diseases. With expertise in image analysis, and passion for advancing transformative treatments, I am highly motivated to join Janssen Research & Development LLC. This unique opportunity aligns my skills synergistically with their mission of making data-driven decisions, optimizing drug development pipelines, and ultimately spearheading the creation of life-changing therapies for diverse diseases.

I appreciate your time and consideration of my application. I look forward to the opportunity to contribute to Johnson & Johnson's mission of transforming lives through innovative research. I would welcome the chance to discuss my application with you further and provide any additional information or documents that you may require.

Sincerely,

Niloofar Moazami Goudarzi