

FARAN MASOOD PEERZADA

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Dear Graeme,

I am contacting you regarding the recently announced PhD position "Crop Modelling" and wanted to express my interest in taking on this job. Not only am I enthusiastic about this position, but I have or will develop all the qualities you are looking for.

A passion for learning is evident in my qualifications and/or achievements. I have done my Bachelor of Engineering (Computer Systems) and completed my Master of Engineering in (Mechatronics) from the College of Electrical & Mechanical Engineering, National University of Sciences and Technology (NUST), Pakistan.

During my master's research, I worked as Research Assistant at CAB International, Pakistan on a project entitled "Remote Sensing-Parthenium in Pakistan" under the advisement of Dr. Rene Breton, Director of Research at the School of Physics and Astronomy at the University of Manchester. After that, I worked as a Machine Learning Engineer on a project entitled "Mapping and Estimating Parthenium hysterophorus using Unmanned Aerial Vehicle Multispectral Imagery in district Peshawar, Khyber Pakhtunkhwa, Pakistan" in collaboration with the University of Agriculture (UOA), Peshawar. After that I worked as a Consultant for IT and Digital tool developments on a project titled "Plantwise Plus".

I believe that my diverse research experience, ranging from remote sensing technologies to image processing and machine learning applications, has provided me with a solid foundation in conducting interdisciplinary research. These experiences have equipped me with a deep understanding of data analysis, algorithm development, and the practical application of machine learning techniques in real-world scenarios.

In my previous projects, by monitoring Parthenium in crops using satellite and Multispectral arial imaging, the projects aim to quantify the spread on a large scale, particularly in remote areas, to create evidence-based control strategies. Collecting data that shows how Parthenium has spread over time will give a more in-depth insight into its behavior. Fundamentally, the data helps to create a much more compelling report on the extent of Parthenium, which can be presented to critical decisions and policymakers. My master's research is focused on the classification of Parthenium and other crops in the field by using machine vision and machine learning technologies.

I was intrigued by your advertisement "Crop Modelling." on the website of The University of Queensland, Australia. I found it very relevant with respect to my research interests. I believe there are a number of commonalities between my research interest and your specialization. I would like to get involved in research in this area because it will help me to better prepare for my goals.

Attached are my results and CV, containing my GPA, and references for your consideration. Thank you for your time, and I look forward to hearing back from you.

Regards,
Faran Masood Peerzada