

PRYM Solutions Private Limited

About Us

Salam Kisan is an arm of Prym Solution. It is a single-stop mobile and web application that provides a 360-degree ecosystem connecting the entire agriculture value chain to make farming easy for farmers in India.

Location

Nariman Point, Mumbai

Job Title

Entomologist - Pest and Disease Management

Job Description

An entomologist specializing in pest and disease management focuses on studying and developing strategies to control and mitigate the impact of insect pests and diseases on agricultural crops, forests, or other environments. An entomologist specializing in pest and disease management can play a vital role in building a pest detection and tech solution provider company. Their expertise in understanding insect biology, behaviour, and the intricacies of pest management can contribute to the development of innovative technologies and solutions for detecting, monitoring, and managing pests. Here's how an entomologist with a focus on pest and disease management can contribute to our company:

Responsibilities

- **Pest and Disease Monitoring:** Conducting regular surveys and monitoring programs to identify and assess the population dynamics, distribution, and damage caused by insect pests and diseases. This may involve field visits, trap installations, and data collection to determine the severity and extent of infestations.
- **Pest Identification and Classification:** Identifying and classifying insect pests and diseases based on their characteristics, life cycles, and damage symptoms. This includes using specialized tools, microscopy, and molecular techniques to accurately diagnose and differentiate pest species and disease pathogens.
- **Integrated Pest Management (IPM) Planning:** Developing and implementing IPM strategies to effectively manage pest and disease problems. This includes considering a range of pest control methods, such as cultural practices, biological control, chemical control, and host resistance while minimizing environmental impact and ensuring sustainability.
- **Pest and Disease Risk Assessment:** Evaluating pathways of introduction, assessing potential impacts, and proposing measures for early detection and rapid response.
- **Leadership Roles:** This role involve overseeing a team of entomologists, researchers, technicians, and other professionals. Responsibilities may include assigning tasks, setting goals, providing guidance, and ensuring effective collaboration and communication within the team.

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- **Technology and Innovation:** Staying abreast of new technologies, research findings, and innovations related to pest and disease management. This includes evaluating and adopting novel approaches, such as remote sensing, precision agriculture, or biocontrol agents, to enhance pest control practices.
- **Research and Development:** Leveraging their knowledge of pest biology and behaviour, entomologists can contribute to the research and development of cutting-edge pest detection technologies. This may involve exploring novel approaches such as automated monitoring systems, remote sensing, or bioacoustics for early pest detection and intervention.
- **Solution Design and Testing:** Entomologists can play a key role in designing and testing pest detection and tech solutions. They can collaborate with engineers, data scientists, and software developers to develop innovative tools and platforms that enable efficient and accurate pest monitoring, data analysis, and decision-making.
- **Data Analysis and Interpretation:** Entomologists possess expertise in analyzing and interpreting data related to pest monitoring and management. They can apply their knowledge to develop algorithms and models that leverage data from various sources, such as sensor networks, satellite imagery, or weather data, to provide actionable insights and predictions for pest detection and management.
- **Field Testing and Validation:** Entomologists can lead or collaborate on field testing and validation of pest detection technologies and solutions. They can design experiments, conduct trials, and assess the performance of the solutions under real-world conditions. This ensures that the developed technologies are effective, reliable, and aligned with practical pest management needs.
- **Expert Consultation:** As subject matter experts, entomologists can provide expert consultation and guidance to clients or end-users of the pest detection and tech solutions. They can advise on best practices for pest management, help interpret data, and assist in developing customized pest management strategies based on the specific needs of different industries or environments.
- **Industry Partnerships:** Entomologists can forge collaborations and partnerships with agricultural organizations, research institutions, government agencies, and other stakeholders in the pest management sector. By establishing these connections, they can contribute to the development and adoption of pest detection technologies and influence the industry's direction.
- **Knowledge Dissemination:** Entomologists can contribute to knowledge dissemination by publishing research findings, participating in conferences, and delivering presentations on innovative pest detection and management approaches. This helps raise awareness about the company's solutions and builds credibility within the industry.
- **Collaboration and Consultation:** Collaborating with farmers, agricultural extension services, government agencies, and industry stakeholders to provide expert advice and consultation on pest and disease management practices. This includes conducting training programs, workshops, and educational outreach to promote effective pest control measures.

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Qualification

- **Education:** Minimum experience of 3-5 years with a Ph.D. or Master's degree in Entomology, Plant Pathology, Crop Science, or a related field.
- **Specialization:** Specialization in pest management, integrated pest management (IPM), or related fields is highly desirable.
- **Knowledge of Entomology:** A strong foundation in entomology is essential. This includes knowledge of insect taxonomy, anatomy, physiology, ecology, and behavior. Understanding the life cycles, habits, and interactions of different pest species is crucial for developing accurate and targeted detection methods.
- **Technological Proficiency:** Proficiency in utilizing technology and tools for pest detection and data analysis is important. Familiarity with remote sensing techniques, data analysis software, statistical analysis tools, and programming languages can be advantageous for developing innovative pest detection and tech solutions.
- **Research Skills:** Strong research skills are essential for conducting experiments, collecting data, and analyzing results. Familiarity with research methodologies, experimental design, and statistical analysis is crucial for the development and validation of pest detection technologies.
- **Problem-Solving Abilities:** An ability to think critically, analyze complex problems, and propose innovative solutions is important. This allows for the development of creative pest detection and tech solutions that address the unique challenges of pest management.
- **Communication Skills:** Effective communication skills are vital for collaborating with interdisciplinary teams, presenting research findings, and providing expert consultation. The ability to communicate complex scientific concepts to both technical and non-technical audiences is necessary.
- **Field Experience:** Practical experience in conducting fieldwork, collecting insect samples, and monitoring pests is beneficial. Field experience helps in understanding real-world challenges, refining pest detection methods, and validating the effectiveness of developed solutions.
- **Continuous Learning:** Staying updated with the latest advancements in entomology, pest management techniques, and technological developments is essential. Actively participating in professional development activities, attending conferences, and reading scientific literature helps in staying at the forefront of the field.

Remuneration

7 – 10 LPA based on experience and performance during an interview.

Communication Details

Qualified candidates can send their resumes in confidence to hrdesk@salamkisan.com