National Institute of Food Technology Entrepreneurship and Management, Kundli
An Institute of National Importance
Ministry of Food Processing Industries, Government of India
HSIIDC Industrial Estate, Kundli, Sonipat, Haryana 131028

Date: 26/11/2026

Applications are invited for the Contractual position of

Junior Research Fellow (JRF)

Particulars	Details
Project ID	N/F/E/2026/2000
Project Title	**Development of High-Frequency Ejector Technology with Integration to Vertical Colour Sorter for Food Grains**
Designation	Junior Research Fellow (JRF)
Number of Positions	One (1)
Duration	12 months or Co-terminus with the project, whichever is earlier
Principle Investigators	Dr. Vinkel Kumar Arora, Professor, DF, NIFTEM-K
Emoluments per Month	₹ 37,000 + 10% HRA
Age Limit	Maximum 35 years (relaxation of 5 years for women/SC/ST/OBC/differently abled as per Govt. of India Rules)
Essential Qualifications	B. Tech in Food Technology Management, Agricultural Engineering, Agricultural Processing or Allied discipline Master's degree in **Food Technology, Food Engineering, Agricultural Engineering, Post-Harvest Technology, Agricultural Processing.**
Desirable Qualifications	PhD in **Food Technology, Food Engineering, Agricultural Engineering, Post-Harvest Technology, Agricultural Processing.**
Preferable requirement and experience	Candidates should have a strong understanding of rice processing, rice milling, rice quality evaluation and colour-based sorting. Prior hands-on experience in operating or working with optical/vertical colour sorter machines, preferably for rice. • Good knowledge of rice milling and polishing operations and different rice polishing/processing grades. • Knowledge of acceptance and rejection criteria of rice based on colour, appearance and defects. • Understanding of primary, secondary and tertiary colour sorting and their application in achieving desired product quality. • Experience in rice milling industry, rice processing plants, colour sorting facilities or post-harvest processing will be highly desirable. • Experience in machine parameter optimisation, trial planning, sample preparation and quality assessment. • Knowledge of MS Office, data analysis and preparation of technical reports. • Good communication skills, preferably in Hindi and English.
Roles and Responsibilities	• Operation of Vertical Colour Sorter: Operate, monitor and optimise the vertical colour sorter for different varieties and grades of rice.

	• Rice Quality Assessment: Evaluate rice samples based on colour, appearance, broken grains, discoloured grains, chalky grains, damaged grains, foreign material and other relevant quality attributes. • Rice Polishing Grades: Develop an understanding of different rice polishing/processing grades and establish suitable sorting criteria for each grade. • Colour-Based Acceptance/Rejection: Establish and evaluate acceptance and rejection criteria based on colour characteristics and visible defects in rice grains. • Primary, Secondary and Tertiary Sorting: Understand and implement primary, secondary and tertiary sorting operations to improve sorting efficiency, recovery and product quality. • Machine Parameter Optimisation: Conduct trials for optimisation of machine parameters such as sensitivity, background/colour settings, ejector parameters, feed rate, chute/feed conditions and other relevant operating parameters. • Process Performance Evaluation: Determine sorting efficiency, rejection rate, recovery/yield, purity, defect removal and quality improvement before and after sorting. • Rice Milling Industry Exposure: Interact with rice mills/industry partners and understand practical requirements related to rice grading, polishing, sorting and quality specifications. • Sample Preparation & Trials: Plan and on site in the rice mills to conduct systematic experiments using different rice varieties, quality grades and defect levels. • Data Analysis: Analyse experimental data and prepare comparative reports for different sorting conditions and machine settings. • Documentation & Reporting: Maintain detailed records of machine trials, operating parameters, sample characteristics, rejection levels and final product quality; prepare technical reports, project deliverables and presentations. • Technology Demonstration: Assist in demonstrations, training programmes and technical interactions with industry, students, entrepreneurs and other stakeholders.

General Information

1. Only short-listed candidates will be called for an interview.

2. No TA/DA will be provided to candidates for attending the interview.

3. The date and time of the interview will be communicated to the candidates via email only.

4. Candidates should appear for the interview with their original certificates and other relevant documents.

5. This engagement is purely contractual and co-terminable with the project.

6. The engagement will be for a period of twelve months. Candidates are advised to keep checking email for any change in the date/time of the interview

7. The selected candidates will have no claim for a regular appointment.

Advertisement

How to Apply:

Interested candidates should fill the application form on or before **7th Dec 2026** using the webpage at http://career.droniftem.com with enclosed scanned self-attested supporting documents. For any queries, please write an **e-mail** to croprojectniftem@gmail.com