

## राष्ट्रीय खाद्य प्रौद्योगिकी उद्यमशीलता एवं प्रबंधन संस्थान

(खाद्य प्रसंस्करण उद्योग मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्त्व का संस्थान)

### National Institute of Food Technology Entrepreneurship and Management

(An Institute of National Importance under Ministry of Food Processing Industries, Government of India)

प्लॉट संख्या 97, सैक्टर.56, एचएसआईआईडीसी औद्योगिक क्षेत्र, कुंडली - 131028, जिला सोनीपत (हरियाणा)

Plot No. 97, Sector.56, HSIIDC Industrial Estate, Kundli - 131028, Distt. Sonapat (Haryana)

दूरभाष/Phone: +91.130.2281020 वेबसाइट/Website: www.niftem.ac.in

Advt. Ref. No. N/E/IDS/2025/0158

Date: 30/12/2025

### Advertisement for Contractual Position of Senior Research Fellow (SRF)

Applications are invited for the contractual position under the following project:

#### 1. Senior Research Fellow (SRF):

<b>Project ID:</b>	<b>N/E/IDS/2025/0158</b>
<b>Project Title</b>	Development of a rapid POCT (point-of-care testing) biosensor kit for detection of antibiotic residues in milk
<b>Designation</b>	<b><u>Senior Research Fellow (SRF)</u></b>
<b>Number of Positions</b>	One (1)
<b>Duration and Emoluments per Month</b>	9 Months (extendable based on performance) – ₹42,000 + 10% HRA per month or co-terminus with the project, whichever is earlier.
<b>Essential Qualifications</b>	<b>B. Tech. (Biotechnology), M.Sc. / M. Tech in Life Science / Biotechnology / Biochemistry/ Microbiology / Nanoscience / Biomedical / Molecular Biology</b> with Minimum 2-year experience in biosensors development and/or Immunoassays and/or nanoscience and/or analytical technique/POCT work.
<b>Desirable Qualifications</b>	<ul style="list-style-type: none"> <li>Hands-on experience with protein expression systems (bacterial/yeast/insect/mammalian), affinity chromatography (Ni-NTA, protein A/G), size-exclusion, and dialysis/ultrafiltration.</li> <li>Experience with bio-conjugation, immunization protocols, hybridoma technique or recombinant antibody engineering and screening.</li> <li>Experience with assay validation, LOD estimation, and basic statistics for assay performance.</li> <li>Familiarity with animal ethics approvals and safe handling when applicable.</li> </ul>
<b>Age Limit</b>	Maximum 35 years (relaxation of 5 years for women/SC/ST/OBC/differently as per the govt. of Indian Rules).
<b>Roles and</b>	<b>- Development of Rapid Detection Kit:</b> Design, develop, and optimize point-of-care rapid detection assays (strip-based/colorimetric/immunoassay/biosensor-based) for qualitative and/or semi-quantitative detection of antibiotic residues in milk.



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	<ul style="list-style-type: none"> <li>- <b>Bioreagent &amp; Bio-conjugation Work:</b> Carry out protein/antibody handling, antigen-antibody interactions, bioconjugation (e.g., hapten-protein conjugates, nanoparticle conjugation), and reagent optimization for assay performance.</li> <li>- <b>Nanomaterial &amp; Sensor Integration:</b> Synthesize, functionalize, and characterize nanomaterials (e.g., AuNPs, magnetic nanoparticles, quantum dots, etc.) for signal generation and sensitivity enhancement in POCT formats.</li> <li>- <b>Analytical Characterization:</b> Perform laboratory characterization using UV-Vis spectroscopy, FTIR, DLS, TEM/SEM (as applicable), and other analytical techniques to confirm conjugation, stability, and assay performance.</li> <li>- <b>Assay Optimization &amp; Validation:</b> Optimize assay parameters (pH, buffer, incubation time, reagent concentration) and conduct validation studies including LOD determination, sensitivity, specificity, accuracy, repeatability, ruggedness, and interference studies in milk matrices.</li> <li>- <b>Data Analysis &amp; Statistics:</b> Analyze experimental data using basic statistical tools; prepare validation tables, POD analysis, false positive/false negative rates, and performance reports as per regulatory expectations.</li> <li>- <b>Documentation &amp; Reporting:</b> Maintain detailed laboratory records, prepare SOPs, validation reports, and contribute to technical reports, publications, patents, and project deliverables.</li> <li>- <b>Regulatory &amp; Compliance Support:</b> Assist in aligning assay development and validation with relevant food safety and regulatory guidelines (e.g., FSSAI/ISO where applicable).</li> </ul>
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### General Information:

1. The position is purely on contractual basis
2. Only short-listed candidates will be called for an interview.
3. No TA/DA will be provided to candidates for attending the interview.
4. The date and time of the interview will be communicated to the candidates via email only.
5. Candidates should appear for the interview with their original certificates and other relevant documents.
6. Candidates are advised to keep checking email for any change in date/time of interview

### How to Apply:

Interested candidates should fill the application form on or before **10<sup>th</sup> January 2026** using the webpage at <http://career.droniftem.com> with enclosed scanned self-attested supporting documents. For any query, please write an **e-mail** to [croprojectniftem@gmail.com](mailto:croprojectniftem@gmail.com).

