## Individual Biodata



Name : Dr. P. Karthickumar

Designation : Assistant professor

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Qualification : B.Tech (Agricultural Engineering),
M.Tech (Food & Agrl. Process Engineering)
Ph.D (Food Process Engineering)

Field of Specialization : Fish Process Engineering

Major : Food Process Engineering

Specializing field : 1. Non-destructive evaluation of food quality
2. Development of novel cost-effective gadgets
3. Waste utilization and Renewable energy technologies

Experience (in years) : 8 years 11 months

Current projects : -

Completed projects : 04

| Sl.No. | Title of the Project | Year | PI & Co- PI of the Project | Funds (in Rs) | Funding Agency |
|---|---|---|---|---|---|
| 1. | Establishment Of Fisheries Techno Park Cum Business Incubation Centre | 2017-2018 | Dr. K. Rathnakumar<br>Dr. P. Karthickumar<br>Dr. N. Manimehalai | 1,14,65,000 | National Agricultural Development Programme |
| 2. | Development and demonstration of innovative fisheries engineering interventions for | 2017-2020 | Dr. M. Sivakumar<br>Dr. P. Karthickumar<br>Dr. N. Manimehalai<br>Dr Mohd. Tanveer<br>Dr. D. Kesavan | 75,20,000 | Tamil Nadu Innovation Initiative |

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| | the production maximization in fisheries industries in Tamil Nadu | | Er. S. Monikandon | | |
| 3. | Creating a Platform "Kayalagam" –The Future Store for Amplification of Marketing of Diversified Fish Products in Tamil Nadu | 2018-21 | PC: Dr. P. Karthickumar | 30,83,000 | National Agricultural Development Programme |
| 4 | Development of Solar infrared dryer for hygienic production of dry fish | 2023 | Dr. P. Karthickumar<br>Dr. N. Manimehalai | 1,00,000 | Unnat Bharat Abhiyan (UBA) 2.0 |

**Research publications :**

- Ragasudha, R., Karthickumar, P., Murali, S., Pradeep, R., Rathnakumar, K., Mercy Amrita, C., Manimehalai, N. and Babiyola, D. 2023. Design and performance analysis of a PV-powered solar-infrared hybrid dryer for anchovy fish drying. Biomass Conversion and Biorefinery, Article published online, https://doi.org/10.1007/s13399-023-03944-0. (NAAS 10.99)
- Rajasekar, V., P. Karthickumar, A.H.R., Rose, N. Manimehalai and D. Subhasri. 2022. Development and characterization of biodegradable film from marine red seaweed (*Kappaphycus alvarezii*). Pigment & Resin Technologyhttps://doi.org/10.1108/PRT-09-2021-0119. (NAAS Rating 7.24)
- Manimehalai, N., P. Karthickumar and K. Rathnakumar. 2021. Thermophysical Properties of Brackish Water Shrimp (Litopenaeusvannamei) for Process Design and Optimization. International Journal of Nutrition, Pharmacology, Neurological Diseases 11(4): 298-302, Oct–Dec 2021. | DOI: 10.4103/ijnpnd.ijnpnd_28_21.(IF 0.69)
- Pradeep, R., Rathnakumar, K., & Karthickumar, P. (2021). Optimization of Process Variables of Twin-Screw Extruder Using Response Surface Methodology for the Production of Fish Added Extruded Snack Product. In *Next Generation Materials and Processing Technologies: Select Proceedings of RDMPMC 2020* (pp. 459-474). Singapore: Springer Singapore.
- Karthickumar, P., Sinija, V. R., Alagusundaram, K., & Yadav, B. K. (2018). Development of a sorting system for fruits and vegetables based on acoustic resonance technique.

**Honours and Awards**

- Best Faculty award 2023
- Qualified NET in Agricultural Process Engineering conducted by ASRB
- Fellowship received during Ph.D. degree programme
- Paryavaran Ratana Award from the Indian Centre for Wildlife & Environmental Studies - South Asia Region