



Tamil Nadu Veterinary and Animal Sciences University
Translational Research Platform for Veterinary Biologicals





ANIMAL BIOTECHNOLOGY CAREER ENHANCEMENT PROGRAMME – ABCEP

Job – Oriented programme with fellowship to generate industry-ready manpower

Applications are invited for admission to job-oriented 6 months Animal Biotechnology Career Enhancement Programme. The training domains would cater the specific requirements pertaining to the Animal Biotech industry and thereby aiming to serve as a driver for this growing sector. The students of this programme would become better equipped with enhanced Employability Quotient (EQ) to handle industry assignments and thereby improve their career opportunities.

Six Month Programme

Stipend
Rs.15,000/-
Per Month

Eligibility criteria: Only Indian nationals are eligible to apply


* Candidates should have first class either in M.Sc. or B.Tech / M.Tech Animal Biotechnology / Biotechnology / Bioinformatics / Medical Microbiology / B.V.Sc. or M.V. Sc. Animal / Veterinary Biotechnology / B.E. or M.E. / B.Tech. or M.Tech in Electronics and Instrumentation; Biomedical Engineering; Biotechnology; Food technology, Genetic Engineering; Materials Science or other relevant disciplines

Last date to submit application :
23-02-2024

Date of entrance examination :
05-03-2024

Course commencement :
15-03-2024

For more details and downloading application from our website: www.tanuv.ac.in / www.trpvb.org.in



Application QR

Contact us

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Translational Research Platform for Veterinary Biologicals
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Application Link:
<https://forms.gle/jvasBxJqxoLqpynm7>

ABOUT TANUVAS

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS) is the first veterinary university in South East Asia to be established in 1989 at Chennai. Presently it has seven constituent veterinary colleges namely the Madras Veterinary College at Chennai (one of the oldest veterinary school in the country established in 1903), Veterinary College and Research Institutes (VCRI) at Namakkal, Tirunelveli, Orathanadu, Salem, Theni and Udumalpet. A College of Food and Dairy Technology at Koduvalli, Chennai; College of Poultry Production and Management, Hosur and a Post graduate Research Institute in Animal Sciences at Kattupakkam are also constituent units of the university. TANUVAS is an autonomous institution with a mandate to impart veterinary curriculum and undertake research that benefit stakeholders, farmers and rural people in co-operation with the Government departments. To disseminate the research findings and new technologies to the farming community, TANUVAS has several peripheral units in the form of 20 Veterinary University Training and Research Centres, 3 Farmers Training Centres (FTC), 4 Krishi Vigyan Kendras (KVK) and an Agricultural Technology Information Centre (ATIC). The University has one Poultry Disease Diagnosis and Surveillance Laboratory (PDDSL) at Namakkal, one Avian Disease Diagnostic Laboratory (ADDL) at Thalavasal, one Veterinary University Training and Diagnostic Centre (VUTDC) at Madurai and one Ethno Veterinary Herbal Research Centre for Poultry at Thanjavur.



For any queries please contact
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For more information

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Tamil Nadu Veterinary and Animal Sciences University
Translational Research Platform for Veterinary Biologicals

Animal Biotechnology Career Enhancement Programme – ABCEP

Job – Oriented programme with fellowship to generate industry-ready manpower



6 month Training Programme

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Last date for submission of application

23-02-2024

Tentative date of selection examination

05-03-2024

Tentative date of start of the course

15-03-2024

About TRPVB

The Translational Research Platform for Veterinary Biologicals (TRPVB) is an unique programme funded by the Department of Biotechnology, Ministry of Science and Technology, Government of India (DBT, GoI) functioning at Tamil Nadu Veterinary and Animal Science University (TANUVAS) since 2011.

TRPVB's mission is to bridge disconnect between the industry and academia by fostering the culture of 'Productization' and technology transfer in academic research. Considering the progress and achievements of TRPVB, a Phase II extension was sanctioned by DBT, GoI during 2017 and a Phase III during 2020. During its 9 years of existence TRPVB has developed 42 technologies / products of which 13 technologies have been transferred to industries and commercialized. TRPVB also produces eleven products for veterinary use and directly supplies them to Department of Animal Husbandry and Veterinary Services, Government of Tamil Nadu

TRPVB has a wide range of expertise from basic research to regulatory compliance. TRPVB has 'state-of-the-art' infrastructures for translational research such as

1. TRPVB clean room facility (ISO class 7) - 2959 sq.ft.
2. BSL-2 facility for mycobacterium research - 753 sq.ft.
3. Research laboratory with high end instruments - 3536 sq.ft.
4. DCGI licensed manufacturing facility - 1680 sq.ft.
5. Animal Room experimental facility - 2700 sq.ft.
6. Administrative Unit - 3364 sq.ft.

TRPVB also provides NABL ISO/IEC 17025:2017 accredited diagnostic services for bovine brucellosis and bovine Trichostrongylosis. Other 'one-of-its-kind' testing services available at TRPVB include A1/A2 typing of milk samples, Ivermectin sensitivity in dogs, Evans Syndrome diagnosis in dogs, Haemoprotozoan disease diagnosis in cattle and dogs, Infectious Bovine Rhinotracheitis (PCR / Serology), Johne's Disease (Serology), etc.,



About Animal Biotechnology Career Enhancement Programme (ABCEP)

Traditionally, academic curriculum is designed with an emphasis on theoretical knowledge and is more suited to guide the students towards higher education. Students who are coming out of this conventional educational system often face a prolonged lag period upon their industry assignment. Moreover, the students who are taught by the staff of conventional teaching system cannot get the knowledge on the perspectives of the commercial entities. Hence there is a yawning gap between the academic curriculum and the industry requirement.

This problem is being addressed in this Animal Biotechnology Career Enhancement Programme by initiating an industry-oriented, practical hands-on-training programme for the graduates of Biotechnology and relevant disciplines who are interested to build a career in the Animal Biotechnology sector. The training domains would cater to specific requirements pertaining to the Animal Biotech industry and thereby aiming to serve as a driver for this growing sector.

The students of this programme would become better equipped with an enhanced employability quotient to handle industry assignments and thereby improve their career opportunities. This would catalyze the growth of this nascent sector ultimately fulfilling the needs of farmers and other stakeholders of this industry.

Stipend

A consolidated sum of Rupees Fifteen thousand (Rs.15,000/-) per month will be provided as a stipend for each selected candidate

Eligibility criteria

- Only Indian nationals are eligible to apply
- Candidates should have a first class degree in
 - a. M.Sc. or B.Tech / M.Tech Animal Biotechnology / Biotechnology / Bioinformatics / Microbiology / Genetic Engineering / Food technology / Biomedical Engineering or other relevant disciplines
 - b. B.V.Sc. or M.V.Sc. Animal / Veterinary Biotechnology / Microbiology or other relevant disciplines

Selection criteria : Based on written examination

Expected outcomes of the training

- This programme will address key skill shortages in specific industry sectors. By the end of the training, the trainees will have a comprehensive idea of the biotech industry
- Counselling for seeking placement in biotech / pharma industries will be provided towards the end of the programme

ABCEP - Course contents

Module 1 - Regulatory frame work for testing and manufacturing of veterinary biological products: This module extensively covers the veterinary biological products such as vaccines and diagnostics from concept to market, including process work flow and techniques, documentations, licensing procedures etc.,

Module 2 - Validation of vaccines and diagnostics as per the Indian and International regulatory norms: This module covers the principles and methods of validation of vaccines, diagnostics, analytical-methods and production processes as per Pharmacopoeia, OIE, EMEA and VICH. In addition, it also covers animal testing requirements, IAEC and CPCSEA guidelines.

Module 3 - Introduction to Good Laboratory Practices (GLP) and its application: This module will cover in detail about the procedures to be adopted in a GLP facility and the application of GLP principles to field studies.

Module 4 - Containment needs for handling high risk category organisms: The module covers the biosafety level requirements for laboratories and animal experimenting facilities, Biosafety practices and equipments of microbiological and biomedical laboratories. RCGM guidelines.

Module 5 - Principles and methods of antigen scale up and downstream processing with an emphasis on industry perspective: The module covers in detail the bio process flow for scaling up of biopharmaceuticals with live examples. In addition emphasis will also be on the downstream processes and process economics.

Module 6 - Insights into translational research: This module covers introduction to translational research. Translational research requirements in vaccinology and diagnostics pertaining to pet animals, poultry and farm animals

Module 7 - Basic biotechnology techniques: This module introduces the trainees from various streams to the basic biotechnological/ molecular biological techniques in the laboratories and also gives extensive hands on training in basic biotechnological methods such as PCR, qPCR, Cloning and expression of recombinant proteins, nano technology, animal cell culture techniques, ELISA, lateral flow assay, flowcytometry, cell and small animal imaging, next generation sequencing and more...

In addition to the above modules, the curriculum will also include

- Visits to Biotech / Pharma Industries
- Guest lectures from the experts in biotechnology industry/ academia
- Interactive session with Entrepreneur / Startups
- Technology showcasing
- Students will also be involved in an ongoing research project and are expected to submit a dissertation towards the end of their training program.