



LOVELY
PROFESSIONAL
UNIVERSITY

Transforming Education Transforming India



NEWS LETTER

School of Bioengineering & Biosciences

SCHOOL OF BIOENGINEERING & BIOSCIENCES

At the School of Bioengineering & Biosciences, we blend biology, engineering, AI/ML, and technology to address healthcare, sustainability, and biotech challenges. Our programs feature advanced labs, industry-focused curriculum, and global research ties, preparing students to lead in precision medicine, biofuels, and biotechnological innovation for societal transformation. Furthermore, School of Bioengineering and Biosciences was established at LPU in the year 2006. The school has now created a competitive and research-friendly environment with its infrastructure and facilities. The school has eight domains namely, Biotechnology, Biochemistry, Microbiology, Molecular Biology & Genetic Engineering, Zoology, Botany, Bioinformatics, and Forensic Sciences. The school focuses primarily on the quality of education given to the students and has recruited highly competent faculty from diverse educational, industrial, and research backgrounds.



VISION & MISSION

VISION

To emerge as a Global centre of Excellence in Learning, Research, Entrepreneurship and Industrial collaborations in Bioengineering and Biosciences to contribute for sustainable growth of Society

MISSION

- M1: To prepare Globally competitive Leaders through excellence in Inter-disciplinary Education and Innovation.
- M2: To connect with industries and research organizations for regular curriculum update and trainings
- M3: To develop infrastructure for a Purposeful Research around Societal problems
- M4: To nurture professionals with lifelong learning capabilities leading to successful careers
- M5: To inculcate value system among the individuals thereby making them follow ethical values in life and profession

PLACEMENT HIGHLIGHTS

2225+
recruiters hired
LPU students

6000+
offers from
Fortune 500 companies

400+
recruiters of IIT/IIMs/
NITs also hire from LPU

₹ 10.23 LAC
average salary of top 25%
placed students

MESSAGE FROM THE HEAD OF SCHOOL'S DESK

School of Bioengineering and Biosciences



Dear Freshers,

A heartfelt welcome to the School of Bioengineering and Biosciences! You are about to begin an exciting and transformative journey, and we are thrilled to have you with us.

Our School is a place where science meets innovation, where ideas are nurtured, and where students are encouraged to grow, not just academically, but personally and professionally. Whether your interest lies in Biotechnology, Biomedical Engineering, Microbiology, Bioinformatics, Forensic Sciences or beyond, you'll find endless opportunities to explore, learn, and make a difference.

We have a team of experienced and passionate faculty members, supportive technical staff, and a vibrant learning environment that will empower you to reach your full potential. From hands-on labs to real-world projects and research exposure, everything here is designed to ignite your curiosity and shape you into future-ready professionals.

Remember, this journey will come with challenges, but also great rewards. Stay curious, stay consistent, and never be afraid to ask questions or seek help. We believe in you and are here to support you every step of the way.

Wishing you a joyful and enriching experience ahead!

PROGRAMMES OFFERED

After 12th

Regular

- B.Tech. Biotechnology Engineering
- B.Tech. Biomedical Engineering
- B.Tech. Food Technology
- B.Sc. Biotechnology
- B.Sc. Microbiology
- B.Sc. Food Technology
- B.Sc. Nutrition and Dietetics
- B.Sc. Zoology
- B.Sc. Forensic Sciences

Hons

- B.Sc. Hons./Hons. with Research (Biotechnology)
- B.Sc. Hons./Hons. with Research (Microbiology)
- B.Sc. Hons./Hons. with Research (Food Technology)
- B.Sc. Hons./Hons. with Research (Zoology)
- B.Sc. Hons./Hons. with Research (Forensic Sciences)

International Credit Transfer Option

- B.Tech. Biotechnology Engineering [2+2 with International Credit Transfer Option]

After Diploma or Certificate

Regular

- B.Tech. Food Technology [Lateral Entry]
- B.Tech. Biotechnology [Lateral Entry]
- B.Tech. Biomedical Engineering [Lateral Entry]

After Graduation

Regular

- M.Tech. Biotechnology
- M.Tech. Food Technology
- M.Sc. Food Science and Technology
- M.Sc. Nutrition and Dietetics
- M.Sc. Forensic Sciences

Hons

- M.Sc. Hons. Biotechnology
- M.Sc. Hons. Botany
- M.Sc. Hons. Zoology
- M.Sc. Hons. Microbiology

International Credit Transfer Options

- M.Tech. Biotechnology [1+1 with International Credit Transfer Option]

After Post Graduation

Full Time

- Ph.D. (Food Science and Technology)
- Ph.D. (Biochemistry)
- Ph.D. (Forensic Sciences)
- Ph.D. (Botany)
- Ph.D. (Zoology)
- Ph.D. (Biotechnology)
- Ph.D. (Bioinformatics)
- Ph.D. (Microbiology)
- Ph.D. (Molecular Biology and Genetic Engineering)

Part Time

- Ph.D. (Food Science and Technology)
- Ph.D. (Biochemistry)
- Ph.D. (Microbiology)
- Ph.D. (Bioinformatics)
- Ph.D. (Biotechnology)
- Ph.D. (Zoology)
- Ph.D. (Botany)
- Ph.D. (Forensic Sciences)
- Ph.D. (Molecular Biology and Genetic Engineering)

LPU STUDENT CHAPTERS



MOU'S/ACADEMIC ALLIANCES (NATIONAL)



COMPETITIVE EXAM QUALIFIED (UGC-NET)

The incredible success of Smruti Nayak, B.Sc. (Batch 2024) student, from the School of Bioengineering & Biosciences.



Smruti Nayak
(Batch 2024)

Smruti has successfully cleared the UGC-NET in Life Sciences (December 2024) with an impressive All India Rank of 68, qualifying her for Assistant Professorship and Ph.D. admission eligibility.

COMPETITIVE EXAM QUALIFIED (GATE)

Congratulations to Our GATE 2025 Achievers! We are proud to announce that 11 brilliant students from the B.Tech. Biotechnology at LPU - Bioengineering & Biosciences has successfully qualified for the prestigious GATE 2025 examination!

A special shout-out to:

Their hard work and dedication have made us proud!

Kudos to all our achievers: Japmuskan Kaur, Aryan Mishra, Aditya Kumar, Kola Jai Adithya, Saba, Pranay, Jeniva Jasmine, and Jayanth Lakshman for this outstanding academic milestone.



Sai Siri Tadikonda
AIR 309



Raghavendra B N
AIR 578

ACADEMIC ALLIANCES AND TIE UPS (INTERNATIONAL)



COMPETITIVE EXAM QUALIFIED

The School of Bioengineering & Biosciences at LPU proudly congratulates our talented B.Sc. Biotechnology students for qualifying the GAT B 2025 exam with excellent ranks:

Your hard work, dedication, and academic excellence make us proud. Wishing you all even greater success in your future endeavors!



Pragati
(Gen Rank 100)



Soham Dutta
(Gen Rank 117)



Satakshi
(Gen Rank 173)



Shreya Mahajan
(Gen Rank 148)

COMPETITIVE EXAM QUALIFIED (IIT-JAM, GAT-B, AND GATE LIFESCIENCES)



Prashant Kumar
(Batch 2023)

We are proud to celebrate the outstanding academic achievement of Prashant Kumar, B.Sc. Biotechnology (Batch 2023), who has qualified for IIT-JAM, GAT-B, and GATE Lifesciences – three of the most prestigious national examinations in life sciences.

His success is a reflection of perseverance, passion, and academic excellence – values we nurture at Lovely Professional University - LPU.

INTERNATIONAL CONFERENCES ATTENDED



Kanika Chauhan

Research Scholar at Lovely Professional University, has secured 1st position in the Oral Paper Presentation at the International Conference on Innovation in Artificial Intelligence in Science and Technology, held at APG University, Shimla.

Under the expert mentorship of Dr. Manpreet Kaur, Kanika showcased groundbreaking research in the field of AI applications in science, earning international recognition for her work.



Anjali Chhikara

Research Scholar at Lovely Professional University, has secured 3rd position in the Oral Paper Presentation at the International Conference on Innovation in Artificial Intelligence in Science and Technology, held at APG University, Shimla.

Under the expert mentorship of Dr. Vinayak Gupta, Anjali showcased groundbreaking research in the field of AI applications in science, earning international recognition for her work.



Aritrabha Sengupta

B.Tech. Biotechnology has been awarded the Best Research Paper Oral Presentation – Rising Star Researcher Award at the International Summit on Holistic Innovations for Nations Empowerment 2025 – AI (I-SHINE 25) held at SGT University, Gurugram.

Under the expert guidance of Dr. Awadhesh Kumar Verma, Aritrabha's research impressed the jury and audience alike, standing out among a competitive pool of innovative presentations.

PATENT GRANTED

Congratulations to Dr. Neeta Raj Sharma (Professor & Sr. Dean) and Dr. Anu Bansal (Associate Professor), along with brilliant students Kunwar Shahbaaz Singh Sahi and Allu Alekya, for being granted a patent by the Indian Patent Office. The patent titled "A System of AI and IoT Framework of Huntington's Disease Genetic Marker Probe for Early-Stage Diagnosis and Prediction"



Dr. Neeta Raj Sharma



Dr. Anu Bansal

STUDENTS' ACHIEVEMENT

Heartiest congratulations to Subhamoy Panigrahi, our shining star from the School of Bioengineering and Biosciences, for being felicitated at Abhinandan 2025 for representing Punjab and Lovely Professional University at the prestigious National Integration Camp 2025 organized by NSS RD Chandigarh, Ministry of Youth Affairs & Sports, Government of India.



Celebrating Research Excellence!

Heartiest congratulations to Amanpreet Kaur, a PhD student under the supervision of Dr. Rattan Deep Singh (Professor, Department of Molecular Biology and Genetic Engineering) for winning the prestigious Science to Society Award at the International Conference on Reproductive Biomedicine in Jaipur! Her groundbreaking research has been recognized for its significant impact on clinical practice and human welfare, showcasing LPU's commitment to innovation and societal progress.



STUDENTS' PLACEMENT



Shivani Raj



Bhawana

We are proud to share that Shivani Raj and Bhawana from the B.Tech Biotechnology program have been placed at HighRadius!

This achievement reflects their hard work, perseverance, and readiness to take on industry challenges. At Lovely Professional University - LPU, we are committed to nurturing talent and preparing our students for rewarding careers with leading organizations.



Heartiest Congratulations!

We are proud to share that Saba Naseem, an M.Sc. Forensic Sciences student from the School of Bioengineering and Biosciences, LPU, has been selected by Delhi Police!

This remarkable achievement highlights her dedication, skills, and commitment to excellence in forensic sciences. We wish her great success in this exciting journey ahead!

RESEARCH PAPER PUBLICATION



Dr. Joydeep Dutta

Congratulations to Dr. Joydeep Dutta, HOD & Professor in the Zoology Department, for publishing an article in Food Chemistry X. His research focuses on innovative food preservation methods, exploring biochemical interactions between natural preservatives and foodborne pathogens.

This work provides sustainable solutions to extend shelf life and maintain nutritional value, thereby truly advancing food safety and sustainability.



Dr. Prabhjot Singh Jassal

Congratulations to Dr. Prabhjot Singh Jassal, Associate Professor, Department of Biotechnology, on the publication of his latest research article, "Prospects of phytoremediation in degradation of environmental contaminants: recent advances, challenges and way forward," in the Q1 journal International Journal of Phytoremediation!



Dr. Tejasvi Pandey

A huge congratulations to Dr. Tejasvi Pandey (Assistant Professor & COD, Department of Forensic Science, LPU) for her outstanding achievement in publishing a high-impact research article in the Q1-ranked Journal of Drug Delivery Science and Technology (SJR 0.72)!

This milestone reflects LPU's commitment to cutting-edge research and global academic excellence. Wishing Dr. Pandey continued success in her contributions to forensic science and beyond!

We are proud to announce that Ms. Rasna Zinta, Ph.D. Scholar in the Department of Molecular Biology and Genetic Engineering at Lovely Professional University, working under the Supervision of Prof. Umesh Goutam and co-supervision of Dr. J.K. Tiwari, has successfully published her PhD research in the high-impact Q1 journals Planta. (<https://link.springer.com/article/10.1007/s00425-024-04507-x>) and PLOS one (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0320313>).



Rasna Zinta
PhD Scholar



Dr. Umesh Goutam
Professor & HOD



Dr. J K Tiwari
Principal Scientist, IIVR

Congratulations to Jyoti Guleria (PhD Scholar) from the School of Bioengineering & Biosciences, Lovely Professional University, for publishing a research article in the Journal of Applied Biology and Biotechnology. This work was carried out in collaboration with international partners, including Mohd Rashid Khan (King Saud University), under the supervision of Dr. Minhaj Ahmad Khan (Associate Professor, LPU).



Jyoti Guleria
PhD Scholar



Dr. Minhaj Ahmad Khan
Associate Professor



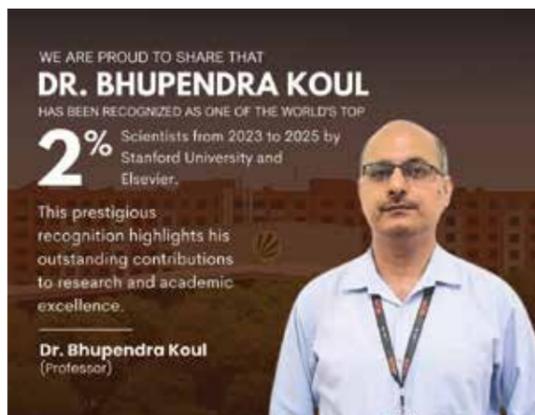
Mohd Rashid Khan
Associate Professor

FACULTY ACHIEVEMENT IN INTERNATIONAL CONFERENCE

Congratulations !
 Prof. Dr. Ashish Vyas secured Third position as Team Association of Microbiologist of India -LPU UNIT at 65th International Conference at Guru Jambheshar University Hissar



FACULTY ACHIEVEMENT IN TOP 2% SCIENTISTS



FIELD VISIT

Our B.Sc. (Hons.) Microbiology students recently explored the world of dairy technology with a visit to the Verka Milk Plant, Jalandhar! Guided by Dr. Arvind Kumar (Associate Professor, Biochemistry) and Dr. Aarti Bains (Assistant Professor, Microbiology), this enriching trip provided students with hands-on insights into milk processing, quality control, and modern dairy innovations.



The Community Development Initiative at Harike Wetland aimed to promote environmental conservation, sustainable practices, and community engagement. By involving local residents and stakeholders, the initiative sought to raise awareness about the wetland's ecological importance, while fostering collaboration for its preservation and the socio-economic well-being of surrounding communities.

Community Development Initiative at Harike Wetland Event Report

Event Name: Community Development Initiative at Harike Wetland, Ferozpur, Punjab (Off Campus Event)

Event Start Date: 29 March 2025

Event End Date: 29, March, 2025



PROFESSIONAL SOCIETY MEMBERSHIP



We are honored to share that Microbial Mavens has been officially recognized as a student-driven organization with global outreach membership by the American Society for Microbiology (ASM).

This milestone reflects our evolution from humble beginnings to earning international recognition for our commitment to microbiology education, health awareness, and sustainable development.

This achievement is a testament to the dedication of every member, supporter, and advocate who believes in harnessing the power of microbiology for a better future. Congratulations to all Mavensians on this remarkable achievement!

BOOK CHAPTER PUBLISHED



Dr. Anish Kumar, Associate Professor in the Department of Bioinformatics and Abdullah Al Noor (12112421) B.Sc. Biotechnology Student, has published a prestigious book

chapter on Artificial Intelligence and Antibiotic Resistance in the book: Artificial Intelligence in Microbial Research - Microorganisms for Sustainability, Vol. 45, published by Springer, Singapore.

WEBINAR ORGANIZED



An exciting session on "AI & ML in Health Sciences" and explore how artificial intelligence and machine learning are revolutionizing the health-care landscape!

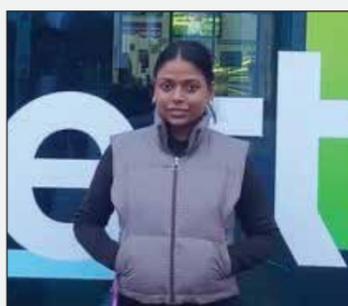
Speaker: Dr. Piyush Kumar Yadav Assistant Professor

ALUMNI SUCCESS



We are proud to celebrate the success of Arif Nissar Zargar, a distinguished alumnus of LPU's B.Tech Biotechnology (Batch 2015) and a Ph.D. holder from IIT Delhi!

Currently making impactful strides as a Research Scientist at River Stone Biotech ApS, Copenhagen, Denmark, Arif specializes in bioprocess development and biobased API production, driving sustainable innovations in biotechnology.



Proud Moment for LPU!

We are thrilled to share that our talented alumna, Sunidhi Maurya (M.Sc. Hons. Microbiology), has embarked on an exciting journey, pursuing

an MBA in Healthcare at the prestigious University of Hertfordshire, UK!

This achievement reflects the excellence and global opportunities that LPU nurtures in its students. Wishing her immense success in her future endeavors!



We are proud to share that Amarthya Vishnu, Class of 2022, has been accepted to pursue an MSc in Archaeological Sciences at the prestigious University of Oxford!

This milestone highlights the dedication and hard work of our alumni, and we wish him great success as he embarks on this inspiring new journey.



We are thrilled to share the incredible success of our proud alumnus Harry Sood, a graduate of B.Tech Biotechnology, Batch of 2022, who was placed at Whatfix

Placed at: Whatfix
 Package: 18 LPA

From lab experiments to corporate excellence – Harry's journey reflects dedication, skill, and the power of quality education. At LPU, we nurture talent, and success stories like Harry's continue to inspire our students to strive for excellence every day.

Congratulations, Harry! We are proud of your achievement and wish you continued success in your professional journey.

Editor Prof (Dr.) Lovleen

Research Co-ordinator
 School of Bioengineering and Biosciences, LPU

Deva Aishwarya

Registration No. 12400529
 M. Sc. II (Biotechnology)
 Student Coordinator of Research and Innovation Committee under EduREV

Shefali Kapila

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