From

B. Venkatrajah,
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To

The Principal,
Anan International School,
Kalapatti,
Coimbatore .

Subject: Application for the teaching position in the subject of Biology -Reg

Respected Sir/Madam,

I am writing to express my keen interest in applying for the teaching position in the subject of Biology in your esteemed institution. With a strong academic background and a passion for teaching and research, I am confident that my qualifications align well with the requirements of this role.

I have 25 years of experience in teaching and research, and I have been dedicated to fostering an engaging and innovative learning environment for students, encouraging them to excel in both theoretical and practical aspects of Biology.

In addition to my teaching experience, I have contributed to research through research publications in peer reviewed international journals, funded projects and presenting the research works in conferences and granted with funded projects from Government of Tamil Nadu. I also have industrial experiences in pharmaceutical company and as Research Associate in Research Laboratory. I believe my expertise in this field can significantly contribute to the academic growth of the school and students' knowledge.

I am eager to bring my knowledge, enthusiasm, and commitment to excellence to your esteemed institution. I would be honoured to discuss my qualifications further in an interview at your convenience.

Enclosed my resume for your kind perusal. Thank you for considering my application. I look forward to your positive response.

Yours sincerely,
(B. VENKATRAJAH)

VENKATRAJAH. B

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Tele: 9487508666, 9080574461
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Asst. Prof. in School of Biological Sciences
CMS College of Science & Commerce
Coimbatore – 641 049
Tamil Nadu, India

Academic Qualifications

Ph. D [Pursuing]	Bharathiar University, Coimbatore
2007, Master of Business Administration [Hospital Management]	Alagappa University, Karaikudi [First Class]
2005 PG Diploma in Bioinformatics	Bharathiar University, Coimbatore [Second Class]
2003 Master of Philosophy [Life Sciences]	Manonmaniam Sundaranar University, Tirunelveli. [Commented]
2002 Master of Arts [Political Science]	Madurai Kamarajar University Madurai [First Class]
1999 Master of Science [Environmental Biotechnology]	Manonmaniam Sundaranar University, Tirunelveli. [First Class]
1997 Bachelor of Science [Microbiology]	Bharathidasan University, Tiruchirapalli [First Class]

Professional Profile

Analytical and qualitative based research work guidelines to students

Sanctioned with funded student projects from Tamil Nadu State Council of Science & Technology

Working knowledge of computer software – Adobe package, MS-Office, Bioinformatics tools and Statistical Package for research

Hands on scientific instruments – FTIR, UV-VIS spectrophotometer, Stereo microscopes, Electrophoresis, Chromatography, Blotting techniques, Gene Cloning experiments, Animal cell and Plant tissue culturing experiments.

Presented and published research papers in national and international level journals and symposiums

Academic Employment – *Teaching and Research*

Teaching Experience : 23 years

Research Experience : 21 years

2016- Till date Assistant Professor in School of Biological Sciences

2008 – 2016 Assistant Professor in Microbiology & Bioinformatics

2000 – 2008 Assistant Professor in Biotechnology

Working till date in Department of Microbiology and Bioinformatics, School of Biological **Sciences, CMS College of Science and Commerce, Coimbatore, India**

Papers: Microbial Techniques, Pharmaceutical Microbiology, Entrepreneurship Development in Mushroom Cultivation, Microbial Physiology, Bionantechnology, Computational Biology, Bioinformatics, Molecular Genetics, Bioprocess Technology, Microbiology of Food and Dairy Products, DNA Science, Principles of Microbial Genes, Genetic Engineering, Soil & Agricultural Microbiology, Plant & Animal Biotechnology, Microbial Techniques, Textile Microbiology and related practicals

2005 – 2008 Lecturer in Biotechnology

Employed in Department of Biotechnology, Srimad Andavan College of Arts & Science, Trichy, India

Papers: Recombinant DNA technology, Molecular Biology, Plant & Animal Biotechnology, Fermentation Technology, Animal Cell Culture, Biostatistics and related practical.

2004 – 2005 Lecturer in Biotechnology

Employed in Department of Biotechnology, Sree Narayana Guru College, Coimbatore, India

Papers: Recombinant DNA technology, Plant Molecular Biology, Plant & Animal Biotechnology, Bioprocess Technology, Biostatistics, Molecular Genetics and related practical.

2000 – 2004 Lecturer in Biotechnology

Employed in Department of Biotechnology, Muthayammal College of Arts and Science, Rasipuram, Namakkal, India

Papers: Recombinant DNA technology, Plant Molecular Biology, Plant & Animal Biotechnology, Bioprocess Technology, Biostatistics, Molecular Genetics and related practical.

Responsibilities

Practical and theory class handling, Research supervision of B.Sc., and M.Sc., student projects. Modern teaching practices using OHP, LCD projectors and model making, animations and video clippings. Demonstrating the handling techniques of instruments and animals to students.

- ✓ Admission convenor of school of biological sciences.
- ✓ Co-operative Co-ordinator for DBT STAR College Scheme.
- ✓ Public Financial Management Scheme (PFMS) related responsibilities.
- ✓ Co-ordinator in CABB Research Consulting Services.
- ✓ Bioscience instrument in-charge.
- ✓ Maintenance of cell cultures.
- ✓ Member of NAAC consolidation team.
- ✓ Co-ordinator of Swatch Bharath Activities.
- ✓ Co-ordinator of Entrepreneurship Development Cell for the college.

Achievements

Co-designed a new course structure with a redistribution of classroom and home-based learning in response to funding cuts from administration.

Devised and implemented learning objectives, lesson plans and activities to meet targets on a weekly, monthly and per semester basis.

Delivered a high-quality learning experience to students which was met with consistently positive feedback when independently evaluated by the faculty.

Publications

- ✓ B. Venkatrajah, Dr. A. Vijaya Chitra and Dr. S. Vanitha Malathy, Antimicrobial finish of cotton fabric by using chitosan nanoparticles against nosocomial pathogens. *International Journal of Research and Analytical Reviews*, Vol.11 (4), (2024), E-ISSN: 2348-1269, P-ISSN: 2349-5138.

- ✓ V. Bhushan, B. Venkatrajah, Praveen. K, *et al.,* Synergistic Drugs coated titanium dental implants against bacterial pathogens. International Journal of Progressive Research in Engineering Management, Vol.4 (11), (2024), e-ISSN: 2583-106, Impatct Factor: 7.001.

- ✓ Jeeva Murali, Venkatesh Rajendran, Venkatrajah Balasubramanian, *et al.,* Fluorescent Staining–Assisted Evaluation of the Anticancer Potential of *Nyctanthes arbor-tristis* Extracts in HepG2 Liver Cancer Cells. *Luminescence*, Dec, 2024, https://doi.org/10.1002/bio.70070.

- ✓ B. Venkatrajah and Dr. A. Vijaya Chitra, Chitosan and antibiotic coated 40S cotton with synergistic effect for enhanced bioefficacy against nosocomial pathogens. *International Journal of Creative Research Thoughts,* Vol.11 (11), (2023), ISSN: 2320-2882.

- ✓ S. Vanitha Malathy, R. Joycy Jay Manoharam and B. Venkatrajah, Bioefficacy of Biopolymer in Biomedical Cotton Finish against Nosocomial Pathogens, *Elixir Appl. Zoology 92* (2016) 38880-38883.

- ✓ S. Vanitha Malathy, R. Joycy Jay Manoharam, B. Venkatrajah, Smart functionalization cotton preparation using synergistic drug for enhanced bioefficacy against nosocomial pathogens, *Drug Invention Today* 2016, 8(1), 1-5

- ✓ B. Venkatrajah, Vanitha Malathy, Elayarajah, B, Mohan, Rajendran, Ram Rammohan. Biopolymer and *Bletilla striata,* Herbal extract Extract coated cotton gauze preparation for wound Healing, *Journal of Medical Sciences*, 2013.

- ✓ B. Venkatrajah, Vanitha Malathy, B Elayarajah, R Rajendran and Ram Rammohan, Synthesis of carboxy methyl chitosan and coating on wound Dressing gauze for wound healing, *Pakistan journal of Biological sciences*. 2013.

- ✓ B. Venkatrajah, Vanitha Malathy, Elayarajah B, Anju Joseph, Girija, R. Chitosan-Alginate Drug Loaded Polymer Network for Accelerated Wound Healing, *Journal of Pharmacy Research, Vol.1 Issue 1.* 2013

- ✓ E. Syamili, B. Elayarajah, Kulanthaivelu, R. Rajendran, B. Venkatrajah and Ajithkumar. "Antibacterial cotton finish using Green Tea extracts interacted with Copper", *Asian Journal of Textile*, DOI. 10.3923. 2012

- ✓ P.K. Janiga, B. Elayarajah, R. Rajendran, Ram RamMohan, B. Venkatrajah and Asa Sudhakar. "Prevention of Post-Operative Surgical Site Infections using Drug Eluting Silk Sutures", *Journal of Industrial Textile*, DOI: 10.1177/1528083711432948. 2011

- ✓ B. Venkatrajah, B. Elayarajah, V. Pandidurai and R. Rajendran, "Interpenetrating Polymer Network of Chitosan crosslinked Silicone as Medical Implant", *International Journal of Universal Pharmacy and Life Sciences*, 1(3): 34-39. 2011

- ✓ Sweda Sreekumar, B. Elayarajah, R. Rajendran, B. Venkatrajah, Soumya Sreekumar and Selin, P. Jacob. "Fabrication of Poly Tetra Fluoro Ethylene (PTFE) to Prevent Coronary Vascular Stent-Associated Infections", *Research Journal of Microbiology*, 6(8): 632-644. 2011

- ✓ B. Elayarajah, R. Rajendran, C. Balakumar, B. Venkatrajah, Asa Sudhakar and P.K.Janiga, "Antibacterial Synergistic activity of Ofloxacin and Ornidazole Treated Biomedical Fabrics against Nosocomial Pathogens", *Asian Journal of Textile,* 1(2): 87-97. 2011

- ✓ B. Venkatrajah, V. Pandidurai, B. Elayarajah and R. Rajendran, "Polymer Biocomposite Chitosan Nanoparticles for Sustained Aceclofenac Drug Delivery", *Elixir BioPhysics*, 35: 2871-2875. 2011

- ✓ R. Rajendran, B. Elayarajah, B. Venkatrajah, C. Balakumar, Asa Sudhakar, P.K.Janiga and S. Devika. "Synergistic Activity of Antibacterial Drugs on Biomedical Cotton and Polyester fabrics against Nosocomial Pathogens", *Elixir BioPhysics*, 35: 2856-2862. 2011

- ✓ B. Venkatrajah, V. Pandidurai, R. Rajendran, B. Elayarajah, J. Jenifer, B. Ashokan, Neethu Anand. "Polymer Biocomposite Nanoparticles for Sustained Drug Delivery", *International Journal of Applied Biology and Pharmaceutical Technology,* 2(2): 454-463. 2011

- ✓ R. Rajendran, B. Elayarajah, B. Venkatrajah. C. Balakumar, Asa Sudhakar, P.K.Janiga and S. Devika."Synergistic activity of Ofloxacin and Ornidazole on Biomedical Fabrics against Nosocomial Pathogens", *International Journal of Applied Biology and Pharmaceutical Technology,* 2(2): 434-445. 2011

- ✓ B. Elayarajah, R. Rajendran, B. Venkatrajah and Sweda Sreekumar, "Biopolymer Tocopherol Acetate as a Drug Carrier to Prevent Bacterial Biofilm Formation on Silicone Ureteral Stents", *International Journal of Pharmaceutical Sciences Review and Research,* 7 (2):96-103. 2011

- ✓ B. Elayarajah, R. Rajendran, B. Venkatrajah, Sweda Sreekumar, Asa Sudhakar, P.K.Janiga and Soumya Sreekumar. "Biodegradable Tocopherol Acetate as a Drug Carrier to Prevent Ureteral Stent associated infection", *Pakistan Journal of Biological Sciences*, 1-5. 2011

- ✓ B. Elayarajah, R. Rajendran, B. Venkatrajah, Sweda Sreekumar, Asa Sudhakar, P.K. Janiga. "Prevention of Biofilm formation on Norfloxacin-Metronidazole treated Ureteral Latex Stents", *International Journal of Engineering, Science and technology*, 3 (1): 544-551. 2011

- ✓ T. Rajeshwari, B. Elayarajah, B. Venkatrajah, S. Rajakumar, S. Meenatchi Sundaram and R. Vijayaraghavan, "Biodegradation of petroleum hydrocarbon using *pseudomonas* and its antifungal activity against phytopathogens", *Bangladesh journal of scientific industrial research,* 46(3): 297-302. 2011

- ✓ B. Elayarajah, B. Venkatrajah, Karthikeyan and P. Rajendran. "Biosurfactant production from the oil spilled isolates of *Bacillus* sp and *Pseudomonas* sp and checking the antifungal activity against phytopathogens using surfactant lipo-peptides", *Indian journal of Applied Microbiology*, 9(1): 24-28. 2008

- ✓ B. Elayarajah, B. Venkatrajah, Karthikeyan and P. Rajendran. "Detection of metallo beta-lactamase production in *Pseudomonas aeruginosa* and its prevalence among various isolates from clinical specimens", *Indian journal of Applied Microbiology*, 9(1): 51-55. 2008

- ✓ B. Elayarajah, B. Venkatrajah, Karthikeyan and P. Rajendran. "Indole acetic acid produced by *Rhizobium* sp in different concentrations of tryptophan and checking its efficiency as growth promoters", *Indian journal of Applied Microbiology*, 9(1): 64-68. 2008.

- ✓ B. Elayarajah, B. Venkatrajah, Karthikeyan and P. Rajendran "Characterization and antifungal activity of siderophores produced by fluorescent pseudomonads based on their quorum sensing signaling molecules", published in *Indian journal of Applied Microbiology*, vol.6(1), pp: 69-72, Dec 2006.

- ✓ B. Elayarajah, B. Venkatrajah, Karthikeyan and P. Rajendran "Biodegradation of hydrocarbon using fluorescent pseudomonads and bioremediation of oil degraded products by checking its seed germination efficiency and antifungal activity against

phytopathogens", published *in Indian journal of Applied Microbiology,* vol.6(1), pp: 73-78, 2006

Seminars Attended

- 7th National Conference, Tamil Nadu Science Forum, 26th & 27th December, 1998. MS University, Tirunelveli.
- Seminar on Current developments in Human Genome Project. Department of Biotechnology, Bharathidasan University Trichy, 9th to 11th March 2002.
- National Level Third Inter-Collegiate Students seminar on "Current Trends & Future Directions in Lifesciences". PG & Research department of Biosciences, Muthayammal College of Arts & Science, Rasipuram.
- Seminar cum Exhibition on Student Project 2002-2003, Muthayammal College of Arts & Science, Rasipuram, 12th and 13th August 2003, TNSCST, Chennai.
- National Seminar on "Biotechnology update for teachers/researchers, School of Biotechnology, Dr. G.R.D. College of Science, 7th to 9th July 2004.
- National Seminar on Recent Trends in Biotechnology, 30th Sep & 1st Oct, 2005. Department of Biotechnology, Srimad Andavan Arts & Science College, Trichy.
- Herbal Focus-2006, A National Level Seminar on Marketing Aspects of Medicinal Plants- A Scientific Approach, 29th & 30th January 2006. Department of Herbal Technology, Srimad Andavan Arts & Science College, Trichy.
- National Seminar on computational Genomics, 12th & 13th Oct, 2006. Department of Biotechnology, Srimad Andavan Arts & Science College, Trichy.
- National Seminar on Future Prospects in Biological Research, 6th & 7th Oct 2006, St. Joseph's College of Arts & Science, Cuddalore.
- Herbal Focus-2007, A National Level Seminar on Marketing Aspects of Medicinal Plants- A Scientific Approach, 27th & 28th January 2007. Department of Herbal Technology, Srimad Andavan Arts & Science College, Trichy.

Orientation Program Attended

- Hill Science Congress at College Level. Year of Scientific Awareness-2004, Tamil Nadu. Sponsored by NCSTC, DST, Govt. of India. Coordinated by TNSF, Chennai.

Paper Presented in Seminar & Symposium

- **C**omparison of immobilized mutant and wild cells of *Saccharomyces cerevisiae* over free cells in ethanol production. Inter-collegiate Students Seminar on

"Modern Approaches in Life Science", 6th Jan.2001. Dept. of Biotechnology, Muthayammal College of Arts & Science, Rasipuram.

- Isolation & Characterization of Calcium oxalate degrading strain in amorphous degrading bacteria and its therapeutic application in human kidney stone with transformed *E. coli.* National Level Inter Collegiate Students Seminar on "Current Trends & Future Directions in Life Science, 4th & 5th Jan 2002. PG & Research Dept. of Biosciences, MCAS & Flora, Rasipuram.

- Isolation & Identification of eye infecting bacterial strains applying PCR & RFLP techniques, Seminar cum Exhibition on Student's Project, 12th & 13th Aug 2003, TNSCST & MCAS, Rasipuram.

- Infection initiation by the presence of Phaseolinone and protection by Levamisole in the seeds of *Phaseolus mungo* by avirulent mutants of *Macrophomina phaseoline* and *Aspergillus fumigatus*. 10th & 11th Jan 2003, National Level Seminar on "Global Strategies in Biosciences". CSIR & MET, Rasipuram.

- Increasing the sedimentation and recovery of algal biomass grown on food processing industry effluent using *Aloe vera. L* tissues as flocculants. 10th & 11th Jan 2003, National Level Seminar on "Global Strategies in Biosciences". CSIR & MET, Rasipuram.

- A study of the biochemical analysis, infra-red spectral analysis and biodegradation of urinary calculi, 9th & 10th Jan 2004, Dept. of Biosciences, MCAS & Flora, Rasipuram.

- Soil isolates of Fluorscent Pseudomonads as biocontrol agent using the produced siderophores against plant pathogens. National level seminar on Advances in Microbiology NAM'07, 5th Oct 2007, PG & Research Dept. of Microbiology, Kurinji Collge of Arts & Science, Trichy.

- Checking for the stability and transmissibility of R-plasmids in disinfectant treated *E. coli* isolated from drinking water. National level seminar on Advances in Microbiology NAM'07, 5th Oct 2007, PG & Research Dept. of Microbiology, Kurinji Collge of Arts & Science, Trichy.

- Development of antimicrobial finished cotton gauze with biopolymers and antibiotics for wound healing. National level seminar, THBOC 2016, 24th January, 2016, AVVM Pushpam College, Poondi.

Conference Poster/Model Presentations

- Ashritha, Kanimozhi, Elayarajah, Venkatrajah, Krithika Poster presentation in a National level seminar conducted by Department of Microbiology in Ramakrishna College of Arts and Science for Women (**3rd prize**)

- Swapna, Devi Ramachandran, Elayarajah, Venkatrajah, Poster presentation at National level conference on biorevolution- a promising strategy, Sri Krishna Arts & Science College, 8th Feb 2010 (**2nd prize**)

- Sreejith .R, Deepthi, Elayarajah, Venkatrajah, Poster presentation at Micromeet 2010, National conference on innovative approachens in biosciences, Sri Narayana Guru College, 26th Feb 2010 (**2nd prize**)

- Sreejith .R, Deepthi, Elayarajah, Venkatrajah, Model presentation at II Louis Pasteur memorial national symposium on antimicrobial resistance and drug discovery, Dr. NGP Arts & Science College, 9th & 10th Sep 2009 (**1st prize**)

- Sreejith .R, Deepthi, Elayarajah, Venkatrajah, Poster presentation in SOULS'09 Edition Conference on Research Entrepreneurship, Career in Life Sciences at GRD College of Science, Coimbatore. 9th and 10th Oct, 2009 (**1st prize**)

- Sreejith .R, Gowri, Elayarajah, Venkatrajah, Poster presentation at National level conference on biorevolution- a promising strategy, Sri Krishna Arts & Science College, 8th Feb 2010 (**1st prize**)

- Sruthi, Jayashree, Elayarajah, Venkatrajah, Poster presentation at Micromeet 2010, National conference on innovative approachens in biosciences, Sri Narayana Guru College, 26th Feb 2010

- Timy Thomas, Alda Gelu, Elayarajah, Venkatrajah, Poster presentation in SOULS'09 Edition Conference on Research Entrepreneurship, Career in Life Sciences at GRD College of Science, Coimbatore. 9th and 10th Oct, 2009

- Timy Thomas, Alda Gelu, Elayarajah, Venkatrajah, Poster presentation at National level conference on biorevolution- a promising strategy, Sri Krishna Arts & Science College, 8th Feb 2010

- Venkata Praveen, Kavya, Soumya, Elayarajah, Venkatrajah, Poster Presentation on HET-CAM test (NIH standards) at Louis Pasteur memorial national symposium, Dr. NGP Arts & Science College, 2012 (**3rd prize**)

- Venkata Praveen, Sneha, Shilpa, Elayarajah, Venkatrajah, Poster Presentation HET-CAM test (NIH standards) at Louis Pasteur memorial national symposium on antimicrobial resistance and drug discovery, Dr. NGP Arts & Science College, 2013 (**1st prize**)

Awards & Honors

1997 **First Rank Holder**
Bachelor of Science, Microbiology,
MIET College of Arts and Science, TN, India

1999 **University Second Rank Holder**
Master of Science, Environmental Biotechnology,
Manonmaniam Sundaranar University, Tirunelveli

2009 **Innovators Award**: **Venkatrajah**, Asa Sudhakar, Anitha, Sujitha, Kanimozhi, Elayarajah, Rajendran, R, Innovators Award, SOULS'09 Edition Conference on Research Entrepreneurship, Career in Life Sciences at GRD College of Science, Coimbatore. 9th and 10th Oct, 2009.

Government Project Sanctioned

TNSCST Project (2001-2002)

- Isolation and characterization of calcium oxalate degrading strain in amorphous degrading bacteria or soil bacteria and its therapeutic application in human kidney stone with transformed *E. coli.*

TNSCST Project (2003-2004)

- Isolation and Identification of eye infecting bacterial strains applying PCR and RFLP techniques.

Industrial Trainings

- Plant Tissue Culture Training Programme, St. Xavier's College, Tirunelveli.
- Techniques in Molecular Biology, Genei Bangalore.
- Operation and Applications of PCR, Muthayammal College of Arts & Science, Rasipuram.

References

Prof. Dr. D. Velmurugan,
Dean, Sponsored Research,
Publications & Collabations,

AMET University,
Chennai.
Mobile: 9841075847
Dr. R. Rajendran,
Professor,
Department of Microbiology
PSG College of Arts & Science,
Coimbatore.
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Dr. V. Vijay Chithra,
Associate Professor,
Department of Microbiology,
Sri Ramakrishna Arts & Science College for Women,
Coimbatore.
Mobile: 9843110867