

Subject: Application for the post of IP Professional

Dear Hiring Manager,

I recently came across the job opening for the post of IP professional at your esteemed organization, which I am interested in applying for.

I have done B.Sc. Physics (H) and M.Sc. - M. Tech in Biomedical Instrumentation Engineering, with few years of experience in R & D work. I am adept in application development and enhancement and have worked in the patent field over three months to date. My skills include the ability to multitask and have worked on drafting and prosecution. I have research skills which allow me to determine the technology trends in different field; this includes delivering competitive intelligence to determine all research and patent opportunities.

I believe that my academic and professional credentials would make me a valuable addition to your Team, and I look forward to the opportunity of putting my experience to work on behalf of the firm.

I request you to please take a minute to go through my resume for your consideration. It would be a pleasure if I can hear back from you regarding the job application.

Thanking You,

Puja

Puja Biswas
M.Tech in Biomedical Engineering.
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Bangalore, India

Objective:

To work in an organization that allows me to use my skills and helps me to enhance them further thereby contributing towards the organizational goals.

Professional Summary:

- Remarkable experience in Micro Imaging, and Image Analysis.
- Conducting in-depth research, analyzing findings, and evaluating data as a Research fellow as JRF on a Biosensor project.
- Understanding of IPR and Practice.

Professional Appointments:

- 2022** (Jan-April) **Khurana and Khurana, Advocates and IP Attorneys, Bangalore**
Intern : Patent Drafting and Prosecution (pre-grant prosecution).
- 2018-21** **DSS Image Tech India Pvt Ltd., Dept. of Biochemistry, IISc Bangalore**
Application Support: Responsibilities includes supporting research project by providing high quality image and corresponding analysis of biological samples. I have extensive experience in the field of micro imaging, image analysis, and image processing by using Confocal Laser Scanning Microscope FV 3000, LSM 880, Airy Scan, Live Cell Imaging.
Tools: FluoView, cellSens, ImageJ, Zen Software.
- 2017-18** **Carl Zeiss Ind. Pvt. Ltd, MBGU JNCASR Bangalore and ICMR-RMRIMS, Patna**
Application Support: Responsibilities includes supporting research project by providing high quality image and corresponding analysis of biological samples. LSM 880- Airy Scan, Live Cell Imaging.
- 2016-17** **NIT Rourkela, Dept. of Electrical Eng. and Dept. of Biotechnology & Medical Engineering**
Research Fellow
Project Title: Design and Fabrication of PS-enzyme Immobilized biosensor.
Job Profile: Research Work: Producing porous silicon (PS) from silicon wafer by electrochemical etching and enzyme immobilization on PS surface. Characterization of PS and enzyme immobilized PS film with SEM and other techniques.
Fabrication and characterization of SiNW.
Conference preparation
Publication: Biswas, Puja, et al. "Biosensor for detection of dissolved chromium in potable water: A review." Biosensors and Bioelectronics (2017).
Tools: LaTeX, MatLab, Origin, Corel, Nanoscope, Gwyddion, COMSOL Multiphysics.
- 2010-14** **DBT-IPLS Program, Dept. of Biochemistry, Biotechnology, & Microbiology, University of Calcutta.**
Technical Officer/ Radiological Safety Officer
Application Support for R & D work, related paper work and demonstration. I have extensive experience in the field of microimaging and image analysis, image processing by using Veeco di Inova.

Job Profile: Operation, maintenance and Image analysis of Atomic Force Microscope (AFM) and its different modes: EFM, MFM, F-D analysis, C-AFM, and liquid cell imaging. Demonstrating the basics of AFM, different modes, application and sample preparation (di Inova).

Maintaining the Radiological safety facility.

Preparing Annual report and Organizing Seminar/ Conference.

Training Attended

- Training Programme on “Patent filing process in India, Patent specification, examples & Patent search, examples” by RGNIIPM, 2022.
- Training Programme on “Patent specification writing (Description & Claims)” by RGNIIPM, 2022.
- Training programme on Radiological Safety Aspects in the Research Application of Ionizing Radiation at Bhaba Atomic Research Centre (BARC), Mumbai, India.
- Zeiss-IITR WORKSHOP’ on Confocal and Super Resolution Microscopy, Carl Zeiss, India.
- Different modes of Atomic Force Microscopy from Veeco India Nano Technology Laboratory, JNCASR, Bangalore, India.

Experience in Patent Related Work

Prosecution/Drafting Work Experience working with Prosecution (pre-grant prosecution) and Drafting Team and worked in wide range of domain including bioengineering, drug delivery, microfluidics, pharmaceuticals, electrical, electronics, IoT, mechanical, renewable energy to name a few.

Education:

- 2014-16** **University of Calcutta, M. Tech in Biomedical Instrumentation Eng.**
Department of Applied Optics and Photonics.
Thesis Title: Studying Nanoscale Surface Distribution by a Fusion Imaging approach with Magnetic Force Microscopy
Copyright: Copyright filed – ‘Methodology for analyzing magnetic Images by a fusion imaging approach to study nanoscale surface distribution of magnetic force’- Diary Number 9692/2016-CO/SW dated 13.08.2016.
Thesis Supervisor: Prof. Anjan Kr. Dasgupta, University of Calcutta.
Academic Achievements: Ranked 4th in M.Tech.
- 2008-10** **University of Calcutta, M.Sc in Biomedical Instrumentation.**
Department of University Science and Instrumentation Centre.
Thesis Title: Study of Heart Rate Variability in women due to Gonadotrophic hormone or Gonadotrophin.
Thesis Supervisor: Prof. D. N. Tiberwala, Jadavpur University.
Academic Achievements: Ranked 2nd in M.Sc.
- 2005-08** **University of Calcutta, B.Sc in Physics Honours.**
Lady Brabourne College, Department of Physics, University of Calcutta.

❖ Research Project

Design and Fabrication of Porous Silicon based Biosensor for detection of dissolved

Chromium, Odisha. (DST)- NIT, Rourkela.

❖ **Other Projects:**

- a. Studying Nanoscale Surface Distribution by a Fusion Imaging approach with Magnetic Force Microscopy. University of Calcutta.
- b. Unravelling Cancer transformation and progression through biological, electromechanical and computational techniques; SMST, IIT Kharagpur.
- c. DBT-Interdisciplinary Programme of Life Science for Advanced Research and Education, University of Calcutta.
- d. Study of Heart Rate Variability in women due to Gonadotrophic hormone or Gonadotrophin, Jadavpur University.

❖ **Copyright:** Copyright filed – ‘Methodology for analyzing magnetic Images by a fusion imaging approach to study nanoscale surface distribution of magnetic force’- Diary Number 9692/2016-CO/SW dated 13.08.2016.

❖ **Publication:**

Biswas, Puja, et al. "Biosensor for detection of dissolved chromium in potable water: A review." *Biosensors and Bioelectronics* (2017).

• **Publications with acknowledgement:**

- Nath, S. and Nagaraju, G., 2020. FANCI helicase promotes DNA end resection by facilitating CtIP recruitment to DNA double-strand breaks. *PLoS genetics*, 16(4), p.e1008701. (IISc, 2020, for Confocal Microscopy)
- Sarkar, S., Alam, M.A., Shaw, J. and Dasgupta, A.K., 2013. Drug delivery using platelet cancer cell interaction. *Pharmaceutical research*, 30(11), pp.2785-2794. (University of Calcutta, 2013, for Atomic Force Microscopy)
- Bhattacharya, A., Chakraborty, M., Raja, S.O., Ghosh, A., Dasgupta, M. and Dasgupta, A.K., 2014. Static magnetic field (SMF) sensing of the P 723/P 689 photosynthetic complex. *Photochemical & Photobiological Sciences*, 13(12), pp.1719-1729. (University of Calcutta, 2014, for Atomic Force Microscopy)