



PUJA BISWAS

B. Sc Physics (H) M. Sc- M. Tech. Applied Physics-
Biomedical Instrumentation Engineering

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Bengaluru, Karnataka

Objective: *To secure a challenging position in an organization that allows me to use my skills and helps me to enhance my learning, knowledge, and expertise, thereby contributing towards the organizational goals.*

Professional Summary: *Intellectual Property Professional possesses a highly scientific analytical and creative mind. Has focused almost extensively on patent law and assists in Patent Drafting and preparing FER responses in domains like Physics, Biomedical, Electronics, Telecommunication, Software, Mechanical, Instrumentation, Semiconductor, Electrical, IoT, AI, and ML for patent drafting projects, FER responses, Prio Art Searches and related office actions. Possesses an undergraduate degree in Physics (H) and M.Sc-M.Tech in Bio-Instrumentation Engineering, and PGDIPRL, NLSIU, Bangalore. Registered Patent Agent IN/PA 5386(cleared PAE in 2023 with a good score).*

WORK EXPERIENCE

- 2023 August-2024 Januarys** **IPpro Services India LLP**
Patent Analyst
Prior Art Search and Patentability Search. Databases used: Total Patent One, Free Patent Online, IP.com, InnovationQ+, Google Scholar, Google Patent, Espacenet.
- 2022-2023 July** **SenanIP**
Patent Associate
Patent Drafting and FER responses for Indian jurisdictions. Holds multiple IP certificates for courses on IPR and advanced courses on Patent Drafting. Keeping abreast with the latest domain knowledge and technology in the diversified field; Good understanding of Indian patents, patenting process, and Filing systems.
- 2022, Jan-April** **Khurana and Khurana, Advocates and IP Attorneys, Bangalore.**
Internship: trained in Patent Drafting and preparing FER responses.
- 2019 Jan-2021 Jan** **Indian Institute of Science (IISc) Bangalore, DSS ImageTech India Pvt.Ltd.,**
Project Associate-I/Application Support: Responsibilities includes supporting research project by providing high-quality image and corresponding Image analysis. I have extensive experience in the field of micro imaging, image analysis, and image processing
- 2018-2019** **Carl Zeiss Ind. Pvt. Ltd., work location: MBGU JNCASR Bangalore and ICMR-RMRIMS, Patna.**

Application Support: Responsibilities includes supporting research project by providing high-quality image and corresponding analysis.

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.

Publication: Biswas, Puja, et al. "*Biosensor for detection of dissolved chromium in potable water: A review.*" **Biosensors and Bioelectronics (2017).** [100+ citation]

2010-2014 **DBT-IPLS Program, Dept. of Biochemistry, Biotechnology, & Microbiology, University of Calcutta.**

Technical Officer/ Radiological Safety Officer. **Application Support for R & D work.** Completed Training on Radiological Safety Programme on Radiological Safety Aspects in the Research Application at Bhaba Atomic Research Centre (BARC), India

EDUCATION

2022-23 **National Law School of India University (NLSIU), Bengaluru**
Post Graduate Diploma in Intellectual Property Rights Law (PGDIPRL)

2014-16 **M. Tech in Biomedical Instrumentation Eng, University of Calcutta.**
Department of Applied Optics and Photonics, Centre for Research in Nanoscience and Nanotechnology.
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 **M.Sc in Biomedical Instrumentation, Rajabazar Science College, University of Calcutta.**
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 B.Sc in Physics Honours, University of Calcutta.

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

- Studying Nanoscale Surface Distribution by a Fusion Imaging approach with Magnetic Force Microscopy. University of Calcutta.
- Unravelling Cancer transformation and progression through biological, electromechanical and computational techniques; SMST, IIT Kharagpur.
- DBT-Interdisciplinary Programme of Life Science for Advanced Research and Education, University of Calcutta.
- 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)

TRAINING & COURSES ATTENDED RELATED TO IPR

- Participated- Online Short term Course on Intellectual Property Rights: Contemporary Issues, 2023
- Participated- One week National e-Workshop on Innovation & Intellectual Property Rights (NEW IPR), 2023.
- Training Programme on “Patent filing process in India, Patent specification, examples & Patent search, examples” and “Patent specification writing -Description & Claims by RGNIPM, 2022.
- Certificate course in Intellectual Property Rights (IPR), Patentability Search, Validity/ Invalidity Search, Patent Specification Drafting - by Udemey