

# PIYA SAHA

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## ENGINEERING PROFESSOR - leveraging 6+ years of experience

Efficient and diligent engineering professor experienced in teaching courses pertaining to the application of physical laws and principles of engineering for the development of machines, materials, instruments, processes, and services. Ability to teach subjects such as chemical, civil, electrical, industrial, mechanical, mineral, and petroleum engineering. Proficient in both teaching and conducting further research in the respective field of expertise and publishing findings in professional journals, books, or electronic media.

### PROFILE SUMMARY

- Proficient in preparing course materials, such as syllabi, homework assignments, and hand-outs
- Efficient in evaluating and grading students' class work, laboratory work, assignments, and papers
- Experience in writing grant proposals to procure external research funding.
- Ability to supervise undergraduate or graduate teaching, internship, and research work

### CORE COMPETENCIES

- |                      |                            |                           |
|----------------------|----------------------------|---------------------------|
| ▪ Research           | ▪ Research Grant           | ▪ Seminars and Workshops  |
| ▪ Teaching           | ▪ Course Curriculum Design | ▪ Professional Conference |
| ▪ Career Counselling | ▪ Placement                | ▪ Educational Audit       |

### PROFESSIONAL EXPERIENCE

#### University of Delhi, New Delhi

Feb. 2023 – Present

##### Engineering Professor

- Ensure an environment conducive to learning, teaching, and research
- Provide a top-quality accredited undergraduate program suitable for the 21st century
- Foster vibrant graduate program and perform quality research in line with national trends and achieve national recognition
- Establish strong partnerships and lasting relationships with industry, government, professional societies, alumni, and academia
- Make significant contributions to the technological and economic development and the region through education, research, and service
- Develop a highly successful teaching and research program
- Attract independent research funding and publish the results of their research studies in leading scientific journals of their discipline
- Supervise graduate and undergraduate students, and teach effectively at both the graduate and undergraduate level courses
- Assist in the education mission of the department and provide whatever academic service is requested by the chair of the department
- Sponsored research programs, recruit and supervise graduate students and engage in service activities for the University
- Build connections to other departments in the Engineering School and the University

#### Snow College, New Delhi

Jan. 2020 – Jan 2023

##### Assistant Professor

- Guided students through the program by instruction, securing internship opportunities, and developing curriculum that matches industry expectations
- Taught fifteen credit equivalencies per semester and assisted in student mentoring, recruiting, and placement
- Contributed in teaching typical undergraduate courses in software engineering, software development, and computer science
- Also taught special topics courses in areas of personal interest
- Advised and mentored computer science and software engineering students
- Committed to student learning and success
- Engage in professional development and scholarly activities, and provided service to the Department, the University, and the Profession
- Focused on various aspects of ferrous metallurgy with specific emphasis on current and emerging industry practices in secondary steelmaking, metal forming, and shaping
- Taught courses at the undergraduate and graduate level that may include assignments to undergraduate laboratories, the two-course/three-credit senior design sequence, and/or service courses
- Contributed to a strong and demonstrable commitment to teaching
- Developed an internationally recognized program of externally funded research

#### Montana Tech, New Delhi

Nov. 2018 – Nov. 2020

##### Assistant Professor

Piya Saha | Resume | Confidential

- Contributed as thesis advisor and committee chair for graduate students in the Materials Science and Engineering M.S. Program and the Materials Science Ph.D
- Established strong collaborations with colleagues in the engineering department as well as other faculty across the campus, especially with the mechanical engineering department
- Contributed services to the department and university in the areas of pedagogy, assessment, curricular innovation, and/or program accreditation
- Advised and mentored undergraduate and graduate students and facilitate student engagement with the industry
- Actively participated in the membership and involvement in the American Iron and Steel Institute (AISI)
- Delivered nine 50-minute lectures per week over the course of each fifteen-week semester
- Instructed laboratories of 1- to 3-hours duration on a weekly basis throughout each semester
- Used hand tools, operate laboratory equipment and electronic instrumentation, and perform light to moderate lifting
- Developed a significant externally funded research program that included a strong record of peer-reviewed publications and graduate mentorship
- Participated in assigned department and university duties, and demonstrate leadership in relevant technical societies
- Provided evidence of emerging research streams with potential for extramural support and publication
- Developed interdisciplinary research and educational programs with partners in other divisions as preferred

**CUNNY, New Delhi**

**Oct. 2017 – Oct. 2018**

#### **Assistant Professor**

- Lead the department's undergraduate and graduate programs and expand the program's research activity and external funding while maintaining its core mission of delivering an excellent undergraduate education and experience
- Acted as key drivers and lead investigators for new federally and state-funded programs, industrial partnerships and collaborations that leverage faculty expertise across the college of engineering and the university
- Played an active role in the teaching and mentoring mission of the department, including the development of undergraduate and graduate-level courses
- Conducted advanced courses like quantum technologies engaging traditional student population as well as non-traditional and online stakeholders to further regional interests in workforce development
- Participated in outreach and contribute to departmental, college, and university service
- Developed innovative approaches to enhancing student engagement, increasing diversity, and expanding collaboration with community and industrial partners
- Supported the continued development of the professional pilot program
- Taught undergraduate courses in engineering and potentially other areas as assigned and qualified
- Advised students and provided service to the department/college/university
- Established a productive research program to support undergraduate degree programs
- Demonstrated ability to conduct and publish research and other scholarly activities and advised and mentored students and promote the department
- Contributed to the development of innovative curriculum and delivery strategies, including traditional, blended and online formats, and participate in initiatives promoting student success, retention, and degree completion

#### **ACADEMIC CREDENTIALS**

**Education** – M.Tech Hansraj College New Delhi 2017

B.Tech Hindu College New Delhi 2015

#### **PERSONAL DOSSIER**

**Languages Known:** English & Hindi

~References and other documents available upon request ~