

AJAY SHARMA

B.Tech in Chemical Science and Technology Indian Institute of Technology Patna

U.G (3rd Year)

E-Mail ID: 2013sharmaajay@gmail.com, ajay.ch13@iitp.ac.in

Phone: +91-8292337947

Current Address: Room No. A624, Boys Hostel 1, IIT Patna, Bihta, Bihar, India-801103

Permanent Address: Brahan, Ladwa, Kurukshetra, Haryana, India-136132

OBJECTIVE: To obtain a summer internship that would provide me an opportunity to gain research exposure and contribute to the best of my ability.

EDUCATIONAL QUALIFICATION:

Year	Level	Institute	CPI/%
2013-Present	B.Tech Chemical Science & Technology	Indian Institute of Technology Patna, India	7.25/10
2011-12	Standard XII Central Board of Secondary Education,	Jawahar Navodaya Vidyalaya Kurukshetra, Haryana	91.8%
2009-10	Standard X Central Board of Secondary Education,	Jawahar Navodaya Vidyalaya, Kurukshetra, Haryana	9.6/10

SCHOLASTIC ACHIEVEMENT:

- Secured **All India Rank-5604** in IIT-JEE among 12,50,000 students (2013)
- Selected for education tour to **Japan** (2009-10)
- Awarded **Merit-Cum-Means Scholarship** by IIT Patna in the year 2013-2014 and 2014-2015.

TECHNICAL SKILLS:

- ❖ Well versed with UV-Vis, IR, NMR Spectroscopy
- ❖ Worked on instruments used in chemical industry like cyclone separator, ball mill, centrifugal pump, venture meter, Shell and tube heat exchanger, plate and frame filter press.
- ❖ Synthesis and characterization of organic and inorganic compounds
- ❖ Synthesis of silver nanoparticles
- ❖ Protein estimation
- ❖ contact angle measurement on hydrophilic and hydrophobic surface

AREA OF INTEREST: My research interest is in the interface of **Chemistry** and **Chemical Engineering**. I am particularly interested in

- Biotechnology, petrochemicals, Industrial chemistry including polymer and Environment
- Physical Chemistry including Thermodynamics, Chemical Reaction Engineering and computation
- Heat and mass transfer, Fluid mechanics, Process Calculations

RESEARCH PROJECT (ongoing):

Synthesis of DNA-organic hybrid molecular building blocks and subsequent creation of self-assembled DNA-organic hybrid Nanostructures for various applications including drug delivery and molecular electronics.

Supervisor: Dr. Prolay Das, Dept. of Chemistry, IIT Patna

EXTRA CURRICULAR ACTIVITIES:

- Member of the threshold club (student chemical club) and Entrepreneurship club of IIT Patna
- Team member of IIT Patna volleyball team and played at District level
- Represented IIT Patna in Inter IIT Sports Meet 2014 at IIT Bombay
- Volunteered in Anti Addiction Campaign