# ABHIJEET SINGH

**BACHELOR OF TECHNOLOGY** 

**CHEMICAL SCIENCE AND TECHNOLOGY** 

INDIAN INSTITUTE OF TECHNOLOGY PATNA

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### **OBJECTIVE**

To be a part of your renowned research group and contribute to the best of my abilities.

EDUCATIONAL QUALIFICATIONS				
Examination	University/Board	Institute	Year	CPI/%
Graduation	Indian Institute Of Technology Patna	Indian Institute of Technology Patna	2017*	7.98
Intermediate	Indian School Certificate Examination	City Montessori School	2012	90.0
Matriculation	Indian Council For Secondary Education	City Montessori School	2010	92.6

<sup>\*</sup> expected date of graduation

## **ACADEMIC/RESEARCH PROJECTS**

#### PREPARATION OF NOVEL CATALYST

[2015]

- Prepared a series of novel catalyst for the ring opening polymerisation of Lactides and Glycolides using Indium, Gallium and Zinc complexes.
- Synthesised numerous crystals of catalysts and analysed their effect.

### **HUMAN POWERED VEHICLE CHALLENGE (ASME)**

[2015]

- Led the transmission team of 4 people in the international competition organised by American Society of Mechanical Engineers (ASME) which saw the participation of more than 48 teams across the globe.
- Successfully **finished at 5<sup>th</sup> place** in the **design event**.
- Designed a complex system of gear transmission of two wheeler fully recumbent bicycle.

**HYDROLYSIS OF NITRILES** [2014]

- Prepared Five Amide Compounds by the hydrolysis of their corresponding nitriles using iron (II) acetate as
- Analysed the same hydrolysis using **iron (II) oxide** as a catalyst.
- Derivatised the **Thiopenes** with the amides to prepare a **polymerised product**.

#### BIODEGRADABLE POLYMERS (THEORETICAL ANALYSIS)

[2014]

Analysed Biodegradable polymers using Ring opening Polymerisation of Lactide and Glycolide.

## **TECHNICAL SKILLS**

- Basic organic and inorganic synthesis and characterization, protein estimation, nanoparticle synthesis
- Well versed with computer languages like C, C++, JAVA, PHP, HTML, CSS, JAVASCRIPT, MYSQL and MATLAB, CHEM-BIO DRAW.

# **ACHIEVEMENTS**

- Awarded merit cum means scholarship for the year 2013-14 based on the performance in the undergraduate qualifying examination.
- Nation's top 0.1 percentile in intermediate, matriculation as well as in the undergraduate qualifying examination.

#### **DECLARATION**

I hereby declare that all the above information is true to the best of my knowledge