

Snigdha V Goley

Address: N-202,SN/IG Hall of Residence, IIT Kharagpur-721302, WB, India

PERSONAL INFORMATION

Date of Birth: 2nd March 1994
Phone No : +91-9474192840

Nationality: Indian Sex: Female
email id- goley.snigdha@gmail.com

RESEARCH INTERESTS

Microfluidics, DNA Dynamics and 3-D Protein Structures

EDUCATIONAL QUALIFICATIONS

Indian Institute of Technology, Kharagpur, India

B.Tech (Honors), Chemical Engineering

Junior Undergraduate Student

CGPA: 9.16/10.00 (upto 7th semester)

Ranked 3rd among 84 students in the Department of Chemical Engineering

Delhi Public School, Risali, Bhilai, Chhattisgarh, India

Senior Secondary Certificate(XII) (CBSE) :95.4% (2011)

Kendriya Vidyalaya, WRS Colony, Raipur, Chhattisgarh, India

Secondary Certificate(X) (CBSE) :98.0% (2009)

ACADEMIC DISTINCTIONS

- Among the 100 students all over India to be invited to New Delhi by the Government of India to witness Republic Day Celebrations 2010.
 - Qualified for the Inspire Scholarship Program awarded to top 0.1% scorers of the class 12th Examinations by the Government of India
 - Winner of the coding event 'Chemsoft', conducted during the annual technical symposium of the Dept. of Chemical Engineering, IIT Kharagpur
 - Received an award from the Kendriya Vidyalaya Sangathan for securing highest marks in the region
 - Selected for prestigious DAAD-WISE and MITACS Globalink Scholarship
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PROJECTS/ INTERNSHIPS

B. Tech Project

Supervisor: Prof Sunando Dasgupta

Department of Chemical Engineering, IIT Kharagpur (July 2014-present)

- *Aim-*To study the effect of oscillating electric field on fibrillated HSA
- Developed experimental protocol and performed experiments to record data

**DAAD WISE Scholar at Centre of Smart Interfaces, TU-Darmstadt, Germany
(May-July 2015)**

- Identified and rectified the problem of aspect ratio in micro-channel and reduced it to 1/9
- Suggested and implemented another idea of making micro-channel using 2 way adhesive tape
- Manufactured gradient gel in lab for preliminary experimental studies on ITP of DNA
- Measured velocity of DNA Bands formed during experiments by using Fluorescence Microscopy

In-plant training at Steel Authority of India Ltd.

Supervisor: Vijay Deshpande, Training and Safety Engineer, Bhilai Steel Plant

- Overview of the process of steel manufacturing using BOS(Basic Oxygen Steelmaking) and EAF(Electric Arc Furnaces) and study of the process of cryogenic fractional distillation of air to produce oxygen required for steel manufacturing.
- Study of the process of formation of Coke from Coal and the testing of the composition of different output and input materials like the hot metal, slag, finished product, refractory materials and the raw materials.

COURSES
UNDERTAKEN

Chemistry	Heat Transfer
Mechanics	Chemical Engineering Thermodynamics
Physics	Programming and Data Structures
Basic Electronics	Fluid Mechanics
Chemical Process Calculations	Numerical Solution of ODE and PDE's
Science of Living Systems	Engineering Drawing
Mass Transfer	Instrumentation and Process Control
Transport Phenomena	Reaction Engineering
Process Equipment Design	Mechanical Operations
Chemical Process Technology	Computer Aided Process Engineering
Intellectual Property Law	Economics

TECHNICAL
SKILLS

<i>Programming</i>	: C/C++,HTML,MATLAB,AVR Studio,L
<i>Softwares</i>	: Proteus, Solid Works,Adobe Photoshop, ASPEN
<i>Operating Systems</i>	: Windows, Linux

EXTRA ACADEMIC
ACTIVITIES

- Entertainment Captain, SN/IG Hall of Residence-
Led a team of 5 students to win Bronze in interhall western vocals
Responsible for participation of hall in various entertainment events
 - Member, Space Technology Students' Society-Responsible for organizing Sky gazing Sessions in the campus.
 - Group Leader, National Service Scheme,Unit-1, IIT Kharagpur-Oragnizing tree plantation drives and awareness rallies in the village.
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