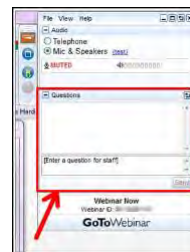
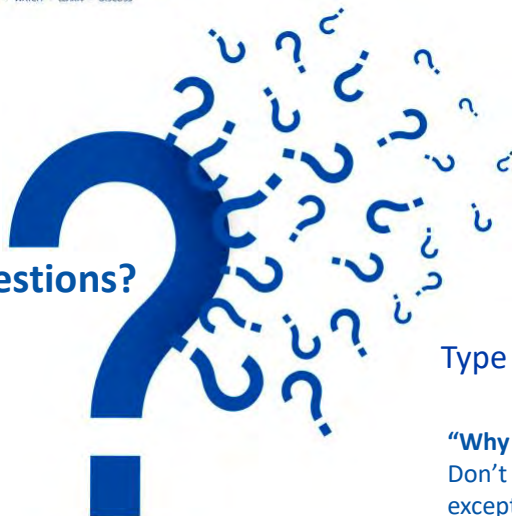




Have Questions?



Type them into questions box!

**“Why am I muted?”**

Don't worry. Everyone is muted except the presenter and host. Thank you and enjoy the show.

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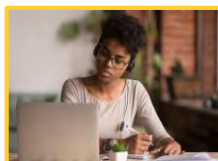
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Professional  
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Virtual Career  
Consultants



ACS Leadership  
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ChemIDP



College to Career



ACS Webinars



Virtual Classrooms

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<https://chemidp.acs.org>

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Date: Wednesday, November 10, 2021 @ 2-3pm ET

Speaker: Lee Ellen Drechsler, Procter & Gamble / Rick Hemon, DuPont / Chris Johnson, Ascend Performance Materials

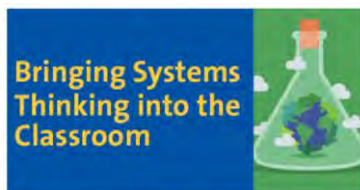
Moderator: Rebekah Paul, American Chemical Society

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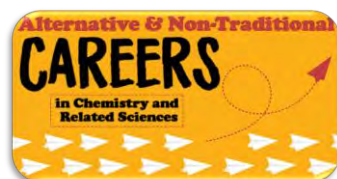
- How copoly (carbonate urethane) materials can create reusable materials applications
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Pidilite Industries Limited



Ashutosh Sharma  
Department of Science and Technology  
ACS Applied Material and Interfaces



Dipankar Das Sarma  
Indian Institute of Science  
ACS Energy Letters



Sandeep Verma  
Science and Engineering Research Board



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Indian Institute of Technology Kanpur



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# Careers in Science and Engineering

## Everything that You Need to Know



**Professor Ashutosh Sharma**  
Institute Chair Professor  
Indian Institute of Technology, Kanpur



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Careers in Science and Engineering: Everything that You Need to Know



**ASHUTOSH SHARMA**  
Institute Chair Professor, Indian  
Institute of Technology, Kanpur



**DEEKSHA GUPTA**  
Associate Director-India,  
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# Careers in Science & Engineering

## Everything You Need to Know

**Disclaimer: *Not* a Career Counselling Session!**

November 10, 2021

18:00-19:00 IST



## Speaker



### Prof. Ashutosh Sharma

Department of Chemical Engineering &  
Center on Nanoscience

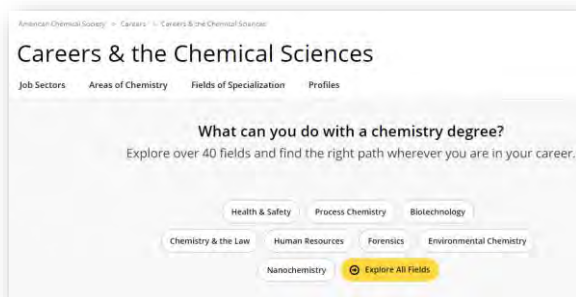
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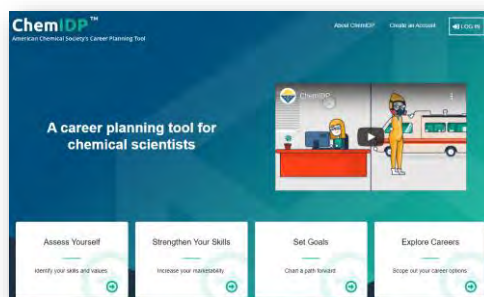


## ACS for Careers



**40 sectors listed**

<https://www.acs.org/content/acs/en/careers/chemical-sciences.html>



**Career Planning Tool for Chemists**

<https://chemidp.acs.org/>

So, is this *Talk over?* !!! 😊😊

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## Lights & Shadows: New Challenges & Opportunities

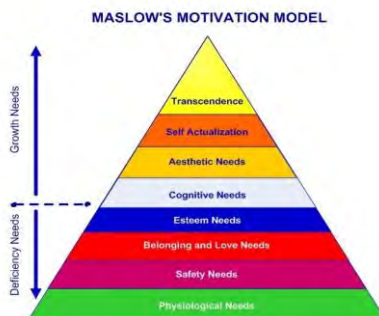
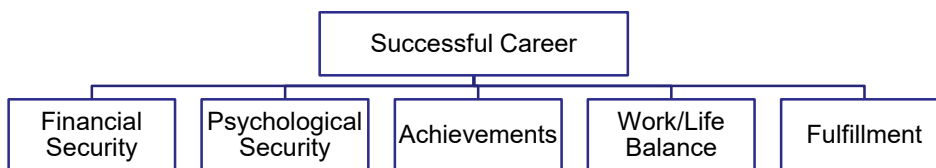


- Convergence of Technologies: Digital; Cyber, Physical; Biological
- Health for All: AMR, Access, Cost...
- Rise of Intelligent Machines: AI, Industry 4.0
- Flow and Anchors of Knowledge
- Environment, Resources, Climate-Sustainable Development
- Globalization
- Huge Impacts on Education, Jobs & Skills

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## What's a Successful Career?

Success # Excellence/Satisfaction !



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## Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



### Which of the following will influence your decision to choose a career?

- Financial security
- Work/life balance
- Aligns with your interest and strengths
- Social status/occupational prestige
- All of them



*\* If your answer differs greatly from the choices above tell us in the chat!*

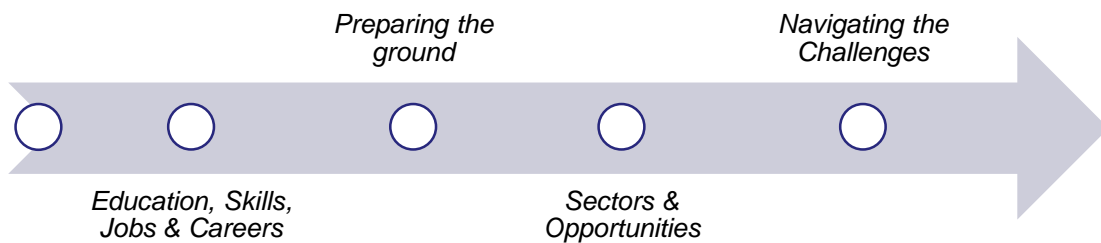
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## Jobs & Careers



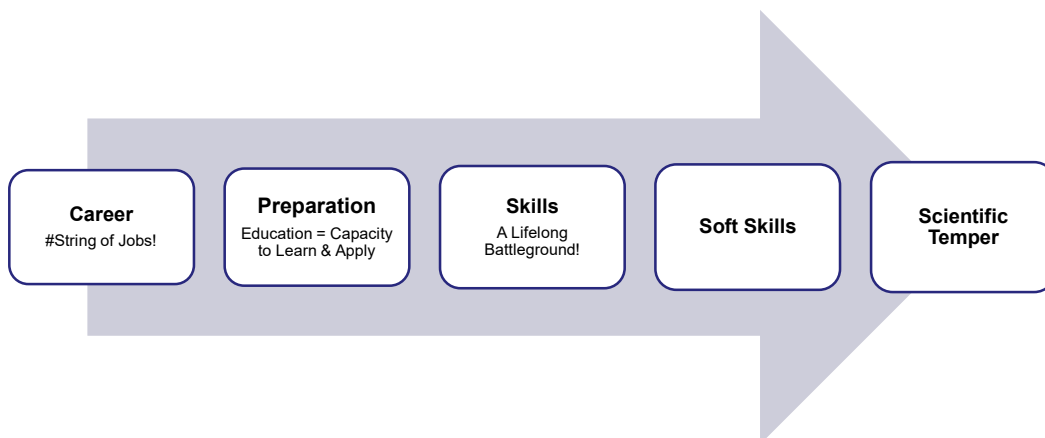
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## Some Perspectives on Careers: An Overview



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## Essentials of Education, Skills, Jobs and Careers



23

## I. Preparing the Ground: Entering the Dragon!



### BSc/MSc/MS/BTech/MTech/PhD

- Matching your discipline/college with your strengths, interests and aspirations **NOT** herd behavior!
- High School/JEE etc., Burnout?
- PhD or Professor should not just be a default option !
- Scholarships: INSPIRE, Ramanujan, Ramalingaswami, etc.

<https://scholarships.gov.in/>

<http://serb.gov.in/programmes.php>

<https://online-inspire.gov.in/>

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## Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



**Which is the MOST challenging part according to you while looking for a job?**

- Finding job opportunities
- Prepare Resume/CV
- Setting-up yourself up for interview
- Preparing Cover Letter
- Suggesting references for 'letters of recommendation'



*\* If your answer differs greatly from the choices above tell us in the chat!*

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## II. Preparing the Ground: Taming the Dragon!



Methods and processes of learning

Synthesis, not only analysis: Problem solving

Getting Balance: Juggad, Dhanda, Panga....!!

Competition versus Cooperation

Ethics

Connecting with the wider world!

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## II. Preparing the Ground: Taming the Dragon 2!



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## Importance of Soft Skills!



Maybe **80%** of success is attributable to Soft Skills + People Skills + Attitude (rest 20% from technical knowledge)

Source: Dr. Anubhav Saxena, Pidilite Industries Ltd.

28

### III. Preparing the Ground: Exiting the Dragon!

BSc/MSc/BTech/MTech/PhD....



- ✓KYC: CV / Resume/ SOP
- KYC: Interviews! Ask questions!!
- Post-PhD: N-PDF etc.; Making of an independent scientist
- Continuous upgrading of skills & knowledge
- Climbing the Stairs or Riding the Escalator !
- Early Career Schemes; Startup support

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### Essential Skills!

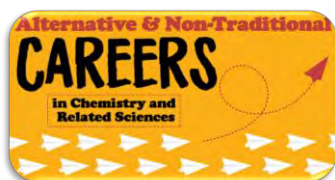


- ✓Talking to people! Networking!!
- Outside perspectives
- ✓Connecting the dots
- Independent & Critical thinking
- Leveraging Serendipity



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Moderator: Rebekah Paul, American Chemical Society

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