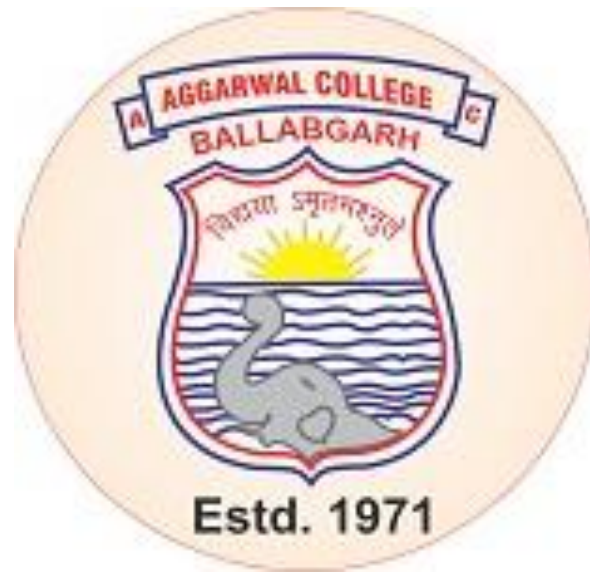


Career Opportunities for Graduate and Post-Graduate Students



Presented by

Career and Placement Cell Aggarwal College Ballabgarh

What is Career Planning?

More practical than academic
Understand interrelated ideas
Don't allow circumstances to plan for you



A job search strategy is only one part of your career plan

Fundamentals of Career Planning Basics



TAKE CHARGE

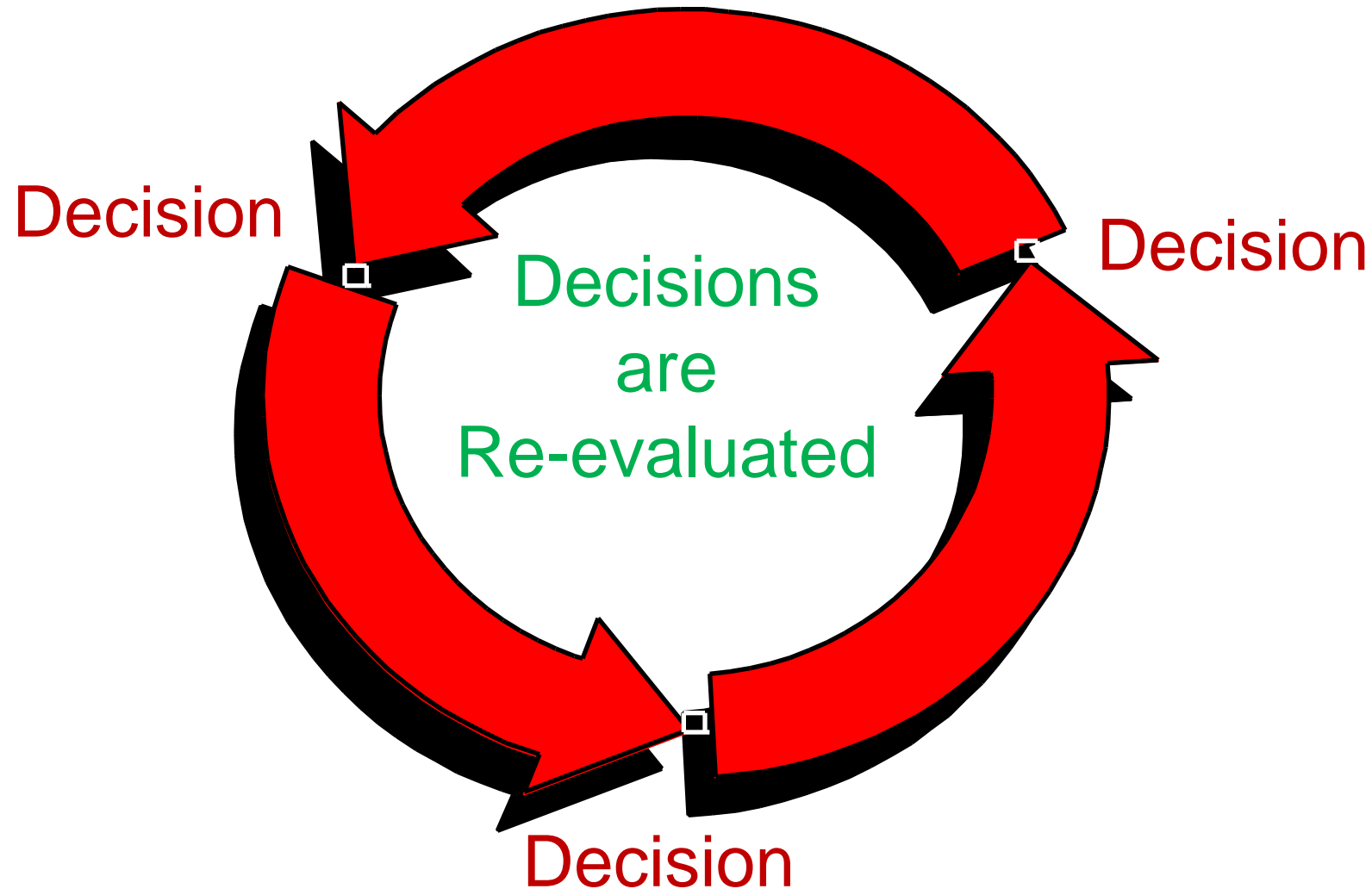
1. Yourself
2. Career desires
3. Marketplace

Avoid

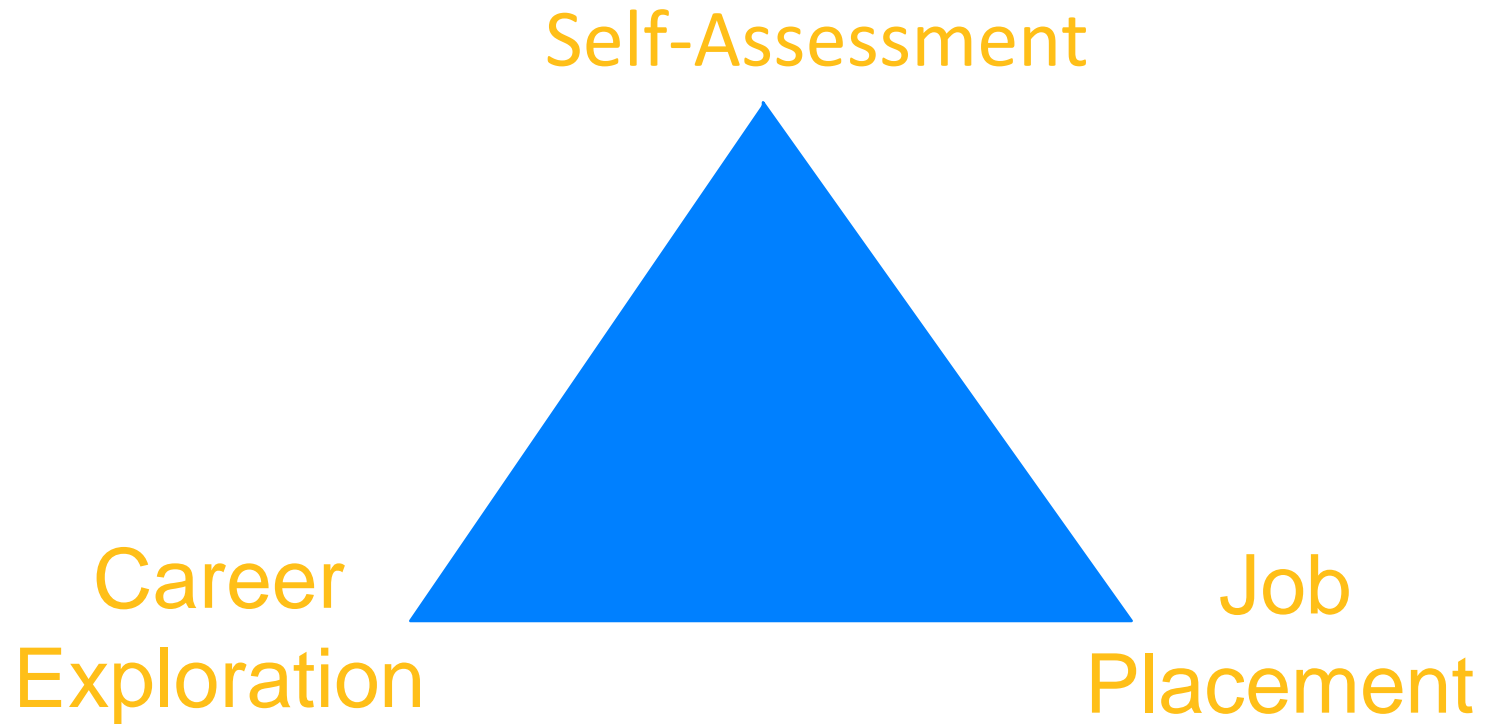
1. Job desperation
2. Reactive behavior

Career Planning is a series of decisions

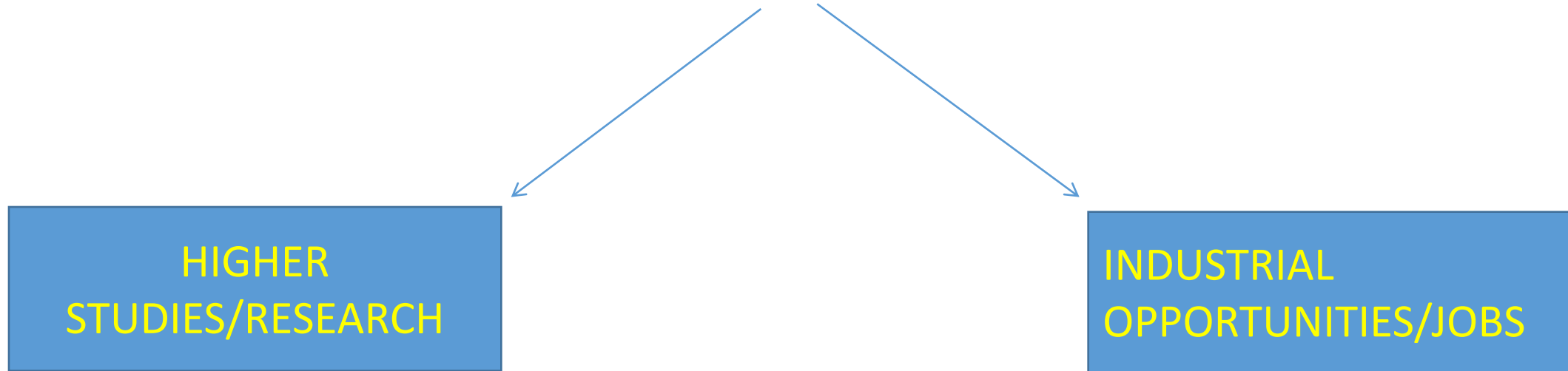
Continuous addition of new information!



Career Planning



POSSIBLE OPPORTUNITIES AFTER UG AND PG



- *Research Institutes and Laboratories*
- *Agricultural Research services*
- *Educational Institutes*
- *Hospitals*
- *RSO in Nuclear Establishments*

- *Programming and Software industry*
- *Power Generating Companies*
- *Aviation Industry*
- *Construction Firms*
- *Insurance sector*
- *Food Technology*

HIGHER STUDIES/RESEARCH

- *M. Sc Acoustics*
- *M. Sc Applied Electronics*
- *M. Sc Astronomy*
- *M. Sc Electronics/Instrumentation*
- *M. Sc Geophysics*
- *M. Sc Medical Physics*
- *M. Sc Nuclear physics*
- *M. Sc Physics/Chemistry/Maths/Environmental Science*
- *M. Sc Pharmacology/ Industrial chemistry*
- *Master in Atomic and Molecular Physics*
- *PG Diploma in Radiological Physics*
- *Postgraduate Certificate in Education Physics*
- *Integrated M.Sc. + Ph.D. Programme*
- *Bachelor in Education*

Doctoral and Post doctoral courses

- Doctor of Philosophy (PhD) in Nanotechnology
- Doctor of Philosophy (PhD) in Bio-nanotechnology
- Doctor of Philosophy (Ph.D.) in Biophysics
- Ph.D. in Chemical Thermodynamics
- Ph.D. in Nuclear Physics/ Material Science
- Ph.D. in Food Technology/Nutrition
- Ph.D. in Material Science
- Ph.D. in Chemistry
- Ph.D. in Environmental Science
-



NATIONAL INSTITUTE OF ELECTRONICS & INFORMATION TECHNOLOGY, DELHI / DEFENCE RESEARCH AND DEVELOPMENT ORGANIZATION

Centre for Personnel Talent Management (CEPTEM)

Qualification – Master in Science

BHABHA ATOMIC RESEARCH CENTRE (BARC), MUMBAI

DRM: Diploma in Radiation Medicine at BARC.

DMRIT: Diploma in Medical Radio Isotope Techniques at BARC

(Dip.R.P.) : the Diploma in Radiological Physics

M.Sc. (Engg.) also offered at BARC, IGCAR, VECC and RRCAT

OCES (ONE YEAR ORIENTATION COURSE FOR SCIENCE POSTGRADUATES) AT BARC

- Training Schools: BARC Training School at Mumbai , Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Raja Ramanna Centre for Advanced Technology(RRCAT), Indore, Nuclear Fuel Complex, Hyderabad, Minerals Directorate for Exploration and Research (AMD), Hyderabad
- *OCES Program Successful candidate posted as Scientific Officer 'C' in DAE units*

INSTITUTE OF PHYSICS, BHUBNESHWAR (IOPB)/INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH (IGCAR) , KALPAKKAM, TAMILNADU

- JRF, SRF, Scientific Officer, Scientific Assistant,
- Technical Officer, Research Associates, etc.

VARIABLE ENERGY CYCLOTRON CENTRE (VECC) , KOLKATA/SAHA INSTITUTE OF NUCLEAR PHYSICS , KOLKATA

- M.Sc./ Ph.D.
- Summer Training
- Undergraduate Associateship
- Research Associate

NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH , ODISHA

- Prestigious fellowships -DST-Inspire, DBT-Welcome, Ramanujan and Ramalingaswami etc.
- Integrated 5-year M.Sc. for 10+2
- Integrated M.Sc.+ Ph.D. after B.Sc.
- Ph.D. after M.Sc.

INTER UNIVERSITY ACCELERATOR CENTRE(IUAC) , NEW DELHI

- Research facility for researchers
- M.Sc, M.Phil/Ph.D ,RA
- Summer Internship -Second / third ,B. Sc. (Physics) / integrated M. Sc. (Physics) in June

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER), PUNE KOLKATA, MOHALI , BHOPAL, THIRUVANANTPURAM & TIRUPATI

- M.Sc(Engg.), M.Phil/Ph.D ,RA
- Scientific Research Series - For masters level students (I and II year M.Sc.)
- Science Fun Series - For bachelor degree (I, II and III year B.Sc.)

COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (CSIR)

- CSIR PROGRAMME ON YOUTH FOR LEADERSHIP IN SCIENCE
- Junior Research Fellowship (JRF)
- Senior Research Fellowship (SRF)
- RESEARCH INTERN
- Post Graduate Research Programme in Engineering (PGRPE)

Various Entrance Examinations

INDIAN INSTITUTE OF TECHNOLOGY (IIT)- JAM

- Joint Admission Test for M.Sc. In all IITs , NITs
- Admission to M.Sc. (Two Year), Joint M.Sc.-Ph.D., M.Sc.-Ph.D. Dual Degree and other post-bachelor's degree program
Eligibility : B.Sc.

GRADUATE RECORD EXAMINATIONS (GRE)

- Admissions in programs (e.g. M.S. and Ph.D.) in **physics/chemistry/maths etc.** (mostly in universities in the United States).
examination administered by the Educational Testing Service (ETS).

JOINT ENTRANCE SCREENING TEST(JEST)

- Ph.D. / Integrated Ph.D Programme in (Physics or Theoretical Computer Science or Neuroscience or Computational)

Participating Institutes :

- Aryabhata Research Institute of Observational Sciences(ARIES), Nainital , Bose Institute, Kolkata, Homi Bhabha, National Institute, Mumbai, International centre for theoretical sciences , Bangalore Indian Institute of Science, Bangalore etc.

NATIONAL ELIGIBILITY TEST FOR LECTURERSHIP IN COLLEGES/UNIVERSITIES

Organized by UGC/CSIR twice in a year

SCHOLARSHIPS AVAILABLE

Council of Scientific & Industrial Research(CSIR)-UGC NET JRF

- Stipend – 32500/- Per month
- Eligibility – M.sc or Equivalent master degree
- Career – Ph.D. , Assistant Prof. and Research fellow

Graduate aptitude test in Engineering (GATE)

- Career : Scientist , Ph.D. (Scholarship 25000/-), M.Tech (Scholarship 12400/-), and PSU etc.
- Qualification required : M.Sc.

INSPIRE Programme (*Scholarship Amount: Rs 80,000 annually*)

- **Offered by:** Ministry of Science & Technology
- UG Or PG in natural or basic sciences. Research (INSPIRE) has three components:
- Scheme for Early Attraction of Talent (SEATS)
- Scholarship for Higher Education (SHE)
- Assured Opportunity for Research Careers (AORC)

TATA INSTITUTE OF FUNDAMENTAL RESEARCH (TIFR)

- UG, PG and Ph.D programmes in various disciplines.
- The Visiting Students' Research Program (VSRP)

Eligibility:

Bachelor's or Master's - Physics/Chemistry/Biology/Mathematics/ Computer & Systems Sciences

Stipend - Rs 7000/- per month

DEPARTMENT OF SCIENCE & TECHNOLOGY (DST)

➤ Programme for Science Students:

Kishore Vaigyanik Protsahan Yojana (KVPY)

Science Olympiad Programme

Women Scientist Scheme-B(WOS-B): M.Sc in Basic or Applied Sciences ,

Fellowship - Rs.30,000/- per month

INSTITUTE FOR PLASMA RESEARCH (IPR) , Gandhinagar

- 1 Year Technical Training Program , stipend -Rs.5400 per month ,(regular appointment)
- six-week Summer School Program , stipend - Rs.10,500/
- Ph. D Program, Fellowship Rs- 16,000/- for 1st and 2nd year and Rs -18,000/- for subsequent years

INTER-UNIVERSITY CENTRE FOR ASTRONOMY AND ASTROPHYSICS (IUCAA) , PUNE

- Sophisticated research facility for researchers
- Research Associate , Ph.D.
- Project Assistant , 6 months to 03 years ,Remuneration: Rs. 28,000/- per month

INDIAN INSTITUTE OF SCIENCE (IISc) , BANGALORE

- Research Associate
- Project Assistants : Stipend – Rs24000/- pm upwards
- Ph.D. , M.Tech
- Specially Ph.D. and M.Tech in Aerospace Engineering
- Short term course
- National Programme on Technology Enhanced Learning (NPTEL)- ONLINE COURSE
Link - <https://onlinecourses.nptel.ac.in/>
- Massive open online course (MOOC)
- Courses for DTH – Short term courses

INDUSTRIAL OPPORTUNITIES

- Oil industry
- Paint industry
- Cement industry
- Pharmaceutical industry
- FMCG industry
- Energy/Power sector
- Automobile/ mechanical industry
- IT industry
- Textile industry
- Agriculture sector etc.

Local industries in NCR

- **Indian Oil Corporation**
- **Orient craft Limited, Gurgaon**
- **Star Wire PVT ltd, Ballabgarh**
- **High Polymer Ind Pvt Ltd, Ballabgarh**
- **National Council of Cement & Building Materials, Ballabgarh**
- **Thomson Press, Faridabad**
- **Hindustan Syringes, Ballabgarh**
- **Hyderabad Industries ltd, Ballabgarh**
- **NTPC, NHPC**
- **Good Year, Faridabad**
- **Escorts, Faridabad**
- **Stork Rubber Products Pvt Ltd, Gurgaon**
- **Kohinoor Foods Ltd, Ballabgarh**
- **Alchem International Pvt Ltd**
- **Havells India Ltd, Faridabad**
- **Service centres of various companies etc.**

Global Opportunities



Common Job Types

- *Lab Supervisor*
- *Researcher*
- *Technician*
- *Teacher*
- *Scientist*
- *Consulting Physicist*
- *Research Associate*
- *Assistant Scientist*
- *Public Relation Officer*
- *Political Advisor*
- *Radiation Oncologist*
- *Radiologist/Radiation Safety Officer*
- *Human Resources Manager*
- *Statistical Officer*
- *Marketing Manager*
- *Banker*
- *Counselor*
- *Patent Officer*
- *Self - Employment*

BUILD

YOUR

CAREER

