

Screening (Skill-sets)

Filtration (Ability)

Distillation (Thoughts)

Crystallization (Ideas)

Formulation (Aptitude)



We Manufacture Talent

CREST



Ride the new wave

Centre For Research Education & Scientific Training (CREST)

INTRODUCTION

The Pharmaceutical and Biotechnology sectors are the new emerging powerhouses of the Indian market. The combined strengths of the Biotech and Pharma sectors are slated to grow to a whopping \$25 billion by year 2010. Further, India's conformity with the product patent regimen will open new arenas in hitherto un-chartered territories in global markets.

New technology is reshaping the forces that drive scientific advances and it is imperative, now more than ever, for companies to stay at the forefront with leading edge R& D resources.

This is especially true of Pharma & BioTech, where new sciences and technologies are transforming the R&D process; and where greater competition is accelerating the speed at which products are launched.

However, new sciences and technologies are also producing newer industries, which compete for the same talent pool. All "knowledge driven" industries are expected to face a human

resource crunch, fuelled by enhanced demands for a diminishing pool of skilled people.

Given the fact that today, over 50,000 (per annum) technocrats leave India in pursuit of work abroad (and this number is expected to double next year) and potential candidates matching the required profile almost always relocate overseas for higher education, it is overwhelmingly apparent that the need for quality training has reached critical mass.

In India, three million graduates pass out every year and roughly one third of them are science graduates. Of these, it is estimated that over 90% choose to work in Information Technology, leaving a very small fraction in the life sciences sector. Yet with factors at home like a nurturing learning climate, and a focused agenda for growth, better opportunities in the sector and world class training centers, the pull would almost certainly occur in the reverse direction, greatly benefitting Pharma and BioTech.

CREST: THE NEW WAVE

What is required to bridge the huge gap between industry needs and education in the Pharma and BioTech sectors in India is the augmentation of the knowledge base already laid down by mainstream education with quality higher education and training. The need of the hour is for well-trained people in India to keep pace with the global dynamics of the sectors. Which is where the Center for Research Education & Scientific Training comes in.

CREST - Center for Research Education & Scientific Training

Set up with the vision to develop a Pharmaceutical/ Biotechnology talent pool which caters to the requirements of the Indian industry, CREST keeps India in pace with changing technology and expertise on par with the best in the world.

CREST faculty members are from world-renowned institutes, with international work experience and are therefore uniquely



Ride the new wave

equipped to impart quality education. The course content and quality of instruction will be on par with leading universities found around the world, but at a fraction of the cost one normally associates with a curriculum meeting global standards. The Institute will also emphasize the rewards of choosing the life sciences as a career option among students.

CREST:

The height of training excellence

The courses currently selected dovetail market requirements and are short-term post-graduate diplomas, not requiring laboratory studies. Lab-oriented courses will be introduced at a later stage.*

Accomplished graduates, post-graduates and engineers who have basic training in their respective fields will be chosen for the more specialized training needed by the pharmaceutical and biotechnology sectors.

This training is aimed to empower students with skill sets needed in India after 2005, when the amount of outsourced work is

expected to reach \$48 billion by year 2010.

Apart from training, CREST will also organize specialized executive training programs for pharmaceutical and biotechnology professionals on a periodic basis. Experts from all over the world will address corporate executives.

For more details about programs and schedules visit www.crestedu.com.

CREST: Leading the new wave

Ms. Bhuvana Jaiganesh

The Founder Director of CREST, Ms. Jaiganesh has a double Masters Degree- one in Toxicology from the University of Madras and the other in Health Sciences (specializing in Management) from the University of Central Florida, USA. She has worked in the Indian health care industry in various capacities for over a decade.

Several renowned experts serve CREST as advisory board members in its mission to impart quality education and training in the Pharma and Biotechnology sectors.

Dr. Ganesh Venkatraman

The founder and Vice President Technology of Momenta Pharmaceuticals. Momenta Pharmaceuticals, Inc. is a biotechnology company specializing in the sequencing and engineering of complex sugars for the development of improved versions of existing drugs, the development of novel drugs, creation of generic products and the discovery of new biological processes.

Momenta recently turned into a publicly held company listed in the NASDAQ exchange. Prior to founding Momenta, Dr. Ganesh Venkataraman was a member of the MIT faculty where he pioneered research in the area of analytical techniques for complex carbohydrates. He also served as the Director of Bioinformatics for the Consortium for Functional Glycomics, a multi-million dollar NIH initiative to study the role of complex sugars in biology.

Dr. Uma Sundaram

Dr. Uma Sundaram- A Ph.D from the University of Stanford (USA) majoring in chemistry. She has a masters degree from the prestigious Indian Institute of Technology, Madras. Her post-doctoral work been at the Department of Chemistry at Princeton University, New Jersey and later at the Biochemistry Department of the University of Stanford, Sanfrancisco. She has worked at as a Design Engineer at KLA Tencor co-ordinating international projects and as a Technology Specialist for Fish & Richardson P.C. Boston, MA. She currently peruses a career in patent law that would leverage technical knowledge and expertise.

Dr. Sasisekaran Ramnath

Professor Ram Sasisekaran is based in Cambridge, Massachusetts, and has the distinction of co-chairing the Bio-engineering Graduate Program at MIT. He is also Visiting Professor at the Princess Chulabhorn Research Institute (CRI), Bangkok, Thailand and at the National University of Singapore. He has made key contributions in biological engineering and has over 95 research and technical publications, and 45 patents to his credit.

He is also the Co-founder & Director of Momenta Pharmaceuticals, a biotechnology company based in Cambridge, and BioScale Inc., a Nanotechnology company based in Boston. He is also on the editorial board of several scientific journals, and on the advisory boards of other biotechnology and pharmaceutical companies. He is a member of the National Institutes of Health study section panel, and is on its steering committee.

Mr. Jaishanker

A veteran in the pharmaceutical sector, Mr. Jaishanker is the Chairman of Chemech Laboratories Limited and the Managing Director of Quest Life science Private Limited. Chemech Laboratories manufactures specialized formulations while Quest life science is Clinical Research Organization. He is the president of the Pharmaceutical Association of Tamil Nadu and the President of the South Indian Pharmaceutical Manufacturer's Association. He is also the Chairman of Confederation of Indian Pharmaceutical Industry and has the unique distinction of leading a pharmaceutical delegation from India along with the Prime minister to the G15 summit in Argentina. An advisory board member of Icfanian Business Group a premier Management Institute in Southern India.

Dr. Ganesan Vishvabarathy

Dr. Vishvabarathy has a Ph.D. degree in Business Administration from the University of Illinois in the USA, and a degree in Business Administration from the IIM, Ahmedabad. He has been involved in the real estate development business over the past 20 years in the Chicago area and has served as a member of the Board of Directors of the Homebuilders Association of Chicago, The TIE Organization, The Chinmaya Mission, The AIA. He is also a member of various cultural and professional organizations, such as The Executive Club of Chicago, and The Chicago Crime Commission and so on.

Ms. Revathi Raghavan

A research analyst and media expert working in New Jersey, USA, MS Raghavan holds a masters degree Communication and Information Studies, from Rutgers University, NJ. She also co-ordinates the operations of CREST in USA.

For more information on the types of courses to be introduced by CREST visit www.crestedu.com.



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