The Khorana Program

- Inspired by Har Gobind Khorana
- Indian-American Nobel Laureate:
  - Gene synthesis
  - Deciphering the genetic code
The Khorana Program

Goals

1. Provide students with a transformative experience

2. Rural development & Global Food Security

3. Increase partnerships between academia and the private sector to benefit society
1. **Indian students in US research laboratories**

- 10 -12 weeks research with top labs

- Weekly lectures by highly effective thought leaders (scientists, sociologists, social entrepreneurs, business leaders, technocrats, policy makers)

- Impart the fundamentals of scientific enquiry, impart leadership skills and a sense of social responsibility

2. **US students at partner universities in India**

- 10 -12 weeks research at TIFR, NCBS, IITs, IISERs, CCMB, CDFD, LV Prasad, NCBS, IISc (and several other leading academic institutions)
Government of India
Minister of Science & Technology (MoST)
Human Resource Development (MHRD)

2008

Ken

Kim
UW to the Big Ten

The Department of Biotechnology, Govt. of India, University of Wisconsin-Madison (UW) (and partner universities) and the Indo-US Science and Technology Forum (IUSSTF) are partnering to support the prestigious Khorana Program for Scholars named in honor of Dr. Har Gobind Khorana, who won the Nobel Prize in 1968 for his work at the interface of Chemistry and Biology while a member of the UW faculty. The Khorana Program will provide opportunities to Indian students to undertake research at University of Wisconsin-Madison and partner universities in Summer 2013 for a period of 10 weeks. A list of UW partner universities is available at https://www.biochem.wisc.edu/faculty/ansari/khorana_program/

The Khorana Program is envisaged to:
- Provide encouragement to young scholars to undertake R&D
- Enable students to carry out research at a premier University in the United States
- Transform research into societal benefits
- Build a seamless scientific community between India and the United States

Eligibility:
B.Tech, M.Tech and M.Sc. students currently enrolled in a recognized institution of higher education in India in the areas of biotechnology including agricultural, health and biomedical sciences.

Scholarship includes:
- Stipend
- Accommodation
- Airfare

For program information contact:
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2009

2011
S.N. Bose SCHOLARS PROGRAM

To nurture future innovators and thought leaders, the Science & Engineering Board (SERB), Department of Science and Technology (DST), Govt. of India, the Indo-U.S. Science and Technology Forum (IUSSTF) and the University of Wisconsin-Madison (UW) are partnering to develop a dynamic and transformative student exchange program between premier institutions in India and the United States. The program is named in honor of Satyendra Nath Bose (1894 - 1974), a visionary Indian physicist best known for his work on quantum mechanics in the early 1920s. The class of particles that obey Bose-Einstein statistics, Bosons, was named after him.

ELIGIBILITY:

- Indian citizens currently pursuing a Bachelors or Masters’ degree at a recognized institution of higher education and learning in India.
- Open to students of Atmospheric and Earth Sciences; Chemical Sciences; Engineering Sciences; Mathematical and Computational Sciences; and, Physical Sciences

Note: Students with a biology background should consider applying to the Khorana Program for Scholars.

THE PROGRAM IS ENVISAGED TO:

- provide an opportunity to Indian students to experience world-class research facilities in leading U.S. institutions;
- encourage and motivate students to take up research as a career;
- pave the way for the next generation of pioneers and innovators in science and technology to interact with each other, and;
- build long-term R&D linkages and collaborations cutting across boundaries around the globe.

Submission Deadline: 15 February 2013
2016 Khorana-Bose Scholars

Scholar statistics:

0.3% of Student Pool

Gender Distribution

- Females (65%)
- Males (35%)
2016

Partner Institutions

100 Scholars
~50 Institutions
US/UW Bose scholars to India
The Khorana Program

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Rural Development

- $1 million USAID grant benefitted over 30,000 women’s self help groups and farmers over three years

- 2-fold increase in milk and cereal production

- ~250,000 individuals benefitted
Establishing Soil Testing Labs

- Rural Development through Public-Private Partnership with Mahindra & Mahindra and USAID
- Placed faculty (John Peters) in India for two years
- Established 100 soil testing labs throughout India
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2. **Rural development & Global Food Security**

3. **Increase partnerships between academia and the private sector to benefit society**
Training Science Entrepreneurs

Two-week intensive
Khorana Tech Transfer Course
for Indian Policy Makers

Senior Indian Council for Medical Research (ICMR) delegate discussing India’s patent law with WARF’s Howard Bremmer, co-developer of the Bayh-Dole act

Tech Transfer Delegates at Sector 67 Hacker workshop
1. Khorana and Bose alumni have been selected for Fulbright, Rhoades & HHMI awards

2. Student exchange expanding to include senior scientists and policy makers in Technology Transfer

3. Rural Development projects initiated with three major organizations

4. Engaging Industrial partners in rural development

5. Young Investigators’ Organization (Sci-ROI)
YOUNG INVESTIGATORS MEETING
CHICAGO
Oct. 21-23, 2016
Explore Partnerships with India

Venue
October 21:
Consulate General of India, Chicago
October 22-23:
University of Chicago

Registration
www.sciroi.org

150 participants only

Organized by
Sci-ROI
Science & Research Opportunities in India
An Initiative of WINStep Forward

Co-hosted by
Consulate General of India

Sci-ROI Leadership Team:
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Piyush Lal Behari (UW-Madison)
Ashwin Mohan (Wash Univ. St. Louis)
Arindam Mondal (IIT-Kharagpur)
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