



Khorana & S.N. Bose Programs

2015 Newsletter



www.winstepforward.org

Dear Friends of Khorana and S.N. Bose,

This year was full of significant changes and exciting developments as the program has now grown to more than 50 US universities. For the first time, the 2015 Khorana and Bose Orientation was held at the Indian Consulate in Chicago and was able to host nearly all of the incoming Scholars. We established WINStep Forward, a non-profit to manage the growing Khorana and Bose programs. We also launched Science and Research Opportunities in India (Sci-ROI) initiative to enable postdoctoral fellows and entrepreneurs in the United States to learn more about academic careers and other scientific and entrepreneurial opportunities in India. Scholars at UW Madison also benefited from a new "peer mentorship" program that was created by two former Khorana and Bose Scholars who are currently working toward their Ph.D.'s at UW Madison.

We are now actively developing the exchange component to India. We seek your help in spreading the word and identifying talented U.S. Scholars for S.N. Bose research internships in top Indian institutions (announcement on page 5).

Please join us on this journey as we continue to improve existing programs as well as develop new programs and initiatives. We thank you for your continued support and welcome your advice, help, and participation going forward.



With Best Wishes,

Aseem Ansari

Aseem Ansari

Professor, Chemical Genomics & Synthetic Biology
Founder-Director, Khorana and S.N. Bose programs

IN THIS ISSUE

Scholar Orientation	2
Sci-ROI Initiative	3
Peer Mentor Program	4
2016 US-to-India Scholarship	5
MIT Honors Dr. Khorana	6
US Scholars Experience India	8
Indian Scholars Experience US	10
Annual Symposium, Delhi	11
How You Can Participate	12
Program Partnerships	13
2015 US Bose Scholars	14
2015 Khorana Scholars	15
2015 S.N. Bose Scholars	18
Contact Information	21



2015 Khorana Scholars



2015 S.N. Bose Scholars

Scholar Orientation at the Indian Consulate, Chicago

On May 22, the 2015 Khorana and Bose Scholars Orientation was co-hosted by WINStep Forward and Dr. Ausaf Sayeed, the Consul General of India. The co-hosts welcomed nearly 100 scholars as well as 50 postdoctoral fellows and junior investigators at the downtown premises of the Indian Consulate. The students gathered for a joint orientation for their 10-week program in the U.S. and met the high-level delegation of policy makers from India as well as

administrators from hosting U.S. academic institutions.

Khorana and Bose Programs introduce top Indian and United States students to scientific and cultural ecosystems of leading institutions. The goal of the programs is to nurture future thought leaders across a broad spectrum of sciences, industry and society.



Dr. Ausaf Sayeed
Consul General of India,
Chicago



Dr. Rajiv Sharma
Executive Director, Indo-US
Science and Technology Forum



Dr. K. VijayRaghavan
Secretary, Department of
Biotechnology (DBT)



Prof. Aseem Ansari
Founder, Khorana and Bose Programs
President Winstep Forward



Dr. TK Chandrashekar
Secretary, Science and
Engineering Research Board
(SERB)



Dr. Stuart Ravnik
University of Texas Southwestern



Prof. Uttam RajBhandary
Massachusetts Institute of
Technology (MIT)



Dr. Nevan Hanumara
Massachusetts Institute of
Technology (MIT)



Prof. Bassam Shakhshiri
University of Wisconsin -
Madison

FOR MORE INFORMATION

- [Chicago Tribune](#)
- [India Times](#)
- [Winstep Forward](#)

Sci-ROI Launched at the Orientation

Concurrently with the Scholar Orientation at the Consulate, WINStep Forward launched Sci-ROI (Science Research Opportunities in India), a new scholar-initiated organization. Sci-ROI was initiated by Dr. Sriram (a postdoctoral fellow) and Dr. Aseem Ansari in response to an overwhelming, yet unmet need of Indian post-doctoral fellows who are interested in academic, industrial, and entrepreneurial opportunities in India. It is rapidly growing and is now governed by a team of 11 postdoctoral scholars from different leading US universities.



Sci-ROI provides a platform for postdocs and entrepreneurs to explore career options and to interact with senior representatives from science organizations and institutes. At the inaugural event, visiting leadership of SERB and IUSSTF answered many questions on the research and entrepreneurial environment as well as science policies in India. Secretary Chandrashekar and Dr. Sharma talked about how India's current climate for researchers is ripe with opportunity and presented details of many fellowships and grants the Government of India is making available to young scientists in order for them to start their careers in India. Sci-ROI also contributes directly to Prime Minister Modi's "Brain Gain" initiative to bring highly trained young scientists, technologists and entrepreneurs back to India. In addition to postdoctoral fellows, Sci-ROI will enable a wider cross section of the talented Indian diaspora to contribute to the "Make in India" directive of the Indian government. Please visit the WinStep Forward website for more information as well as selected presentations from the event.

Science & Research Opportunities in India

An Initiative of WINStep Forward



Prof. T.K. Chandrashekar, Secretary, [Science & Engineering Research Board \(SERB\)](#), Govt. of India addressing Sci-ROI participants and [Khorana and Bose Scholars](#) at the Consulate General of India, Chicago on May 22, 2015.



Dr. Rajiv Sharma, Executive Director, [Indo-US Science and Technology Forum \(IUSSTF\)](#) addressing participants at the Sci-ROI event in Chicago.

FOR MORE INFORMATION

- [Sci-ROI](#)

Former Khorana Scholars Launch Mentor Program

Harisha Rajanala and Aayushi Uberoi were Khorana Scholars in 2010 at the University of Wisconsin-Madison (UW). At the time of selection they were both in their final year of B. Tech Biotechnology at NIT-Warangal and SRM University, respectively. "It was great being in the company of like-minded fellows with diverse research interests. The *Khorana Parivar* (family) created a supportive environment outside of lab" say Harisha and Aayushi. Both returned to UW Madison the following year to pursue PhDs in cancer research.

This summer they attended weekly organizational meetings of the current WINStepforward board as volunteers. In the process of preparing activities for the 2015 Khorana-Bose programs, they proposed the idea of weekly mentoring sessions for the incoming 2015 scholars at Madison. Aayushi and Harisha have both received training at UW in curriculum design and teaching. They utilized this experience to design a curriculum which was then implemented throughout summer during weekly meetings with incoming scholars.

The curriculum that they designed was active learning based and highly adaptable so that it could be modified depending on the feedback received from the scholars and organizational team. They facilitated group discussions to cover variety of areas such as

ethics in science, presentation of scientific research to a general audience, and career oriented discussions. At the same time they also mentored the students to help in their transition to U.S. based labs. An integral part of the curriculum was peer-reviews of the research the Scholars were performing in their respective labs. The primary goal of these sessions was to encourage scholars to utilize each other's expertise as learning resources. This helped foster a camaraderie that would go far beyond the summer of 2016.

Reflecting upon their mentorship experience, Aayushi and Harisha say that while students may have different career goals, it is still imperative for them to learn how to communicate research effectively, be well rounded, and grasp time management skills in order to balance lab work with other activities. They feel this pilot mentorship went very well. The comments from the Scholars were extremely positive and encouraging, and the pair are looking forward to improving the content of the sessions based on the Scholar feedback they received. They're excited about the possibility of making the sessions accessible online to Scholars not only here at UW Madison, but to other Khorana and Bose Scholars all across the U.S.

Aayushi also took the initiative to create a website for Scholars at UW Madison. The website proved



to be an invaluable resource to the Scholars and covered everything from lab safety procedure to Madison area Indian grocery stores that deliver!

WINStep Forward and the Khorana and Bose Scholars Programs would like to thank these two outstanding Khorana volunteers, whose dedication to science and students reflects the Khorana Parivar, in which, "Scholars have found that their shared passion for scientific knowledge also creates an enduring bond that will last far beyond the end of the program."

FOR MORE INFORMATION

- [Mentor Program](#)

RESEARCH in INDIA



Science and Engineering
Research Board (SERB)
Govt. of India



FORWARD



IUSSTF
Indo-US Science and Technology Forum

S.N. Bose SCHOLARSS PROGRAM

INFORMATION SESSION

February 18, 2016

Visit <http://www.winstepforward.org/us-scholars-informational-session>

- Research in India
- Internships at leading Indian Universities
- Summer 2016
- 8-12 Weeks

SCHOLARSHIP INCLUDES

- Stipend
- Airfare
- Placement at top institutions
- Accommodation at select institutions

ELIGIBILITY

- Science, Technology, Engineering, Math, Medicine, Agriculture, and Public Health majors
- Undergraduates with at least junior standing, and graduate students
- Minimum GPA 3.0

For application guidelines refer to:

www.winstepforward.org

For program information contact:
info@winstepforward.org



Application Deadline: 15 MARCH 2016

MIT Remembers Dr. Har Gobind Khorana

By: Jennifer Cherone | Department of Biology, MIT

This is the story of a great man, the fundamental impact he had on modern molecular biology, and the legacy he has left behind for future Indian students to thrive. This is the story of Khorana and the enduring footprint he has left in the hearts and minds of many at MIT.

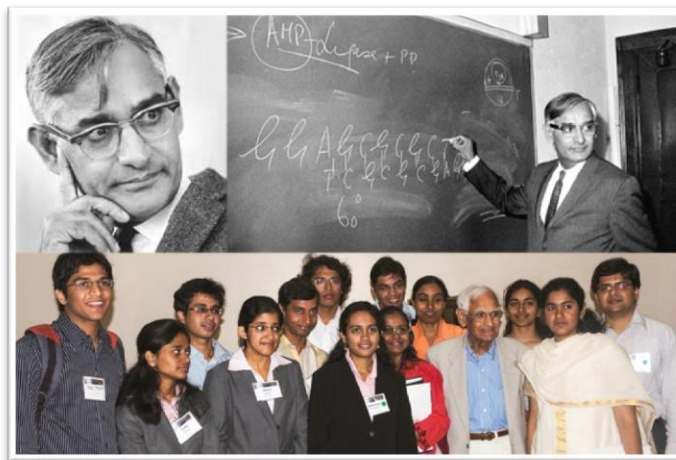
Har Gobind Khorana was born in Raipur, a small village in Punjab, which is now part of eastern Pakistan. He was home-schooled by his father, the village tax clerk. Khorana recalls, "Although poor, my father was dedicated to educating his children, and we were practically the only literate family in the village inhabited by 100 people." This strong sense of value in education is something that stuck with Khorana as he grew. He went on to study at Punjab University and then left India in 1945 to pursue his PhD at the University of Liverpool.

Early in his career, Khorana performed some of his most groundbreaking work, which would lay the basis for modern molecular biology. It was at the University of Wisconsin that Khorana first began to understand how nucleic acids code for protein. Khorana and his team deduced that different combinations of three RNA nucleotides code for unique amino acids, such as CAC codes for histidine and GCA codes for alanine. Thus, strings of RNA nucleotides can be translated into functional proteins composed of the corresponding amino acids. The great achievement of this work was almost immediately recognized with the [Nobel Prize in 1968](#), which he shared with Robert Holley and Marshall Nirenberg.

In 1970, Khorana moved his home to MIT, where he stayed for nearly 40 years until retiring in 2007. It is at MIT that he showed a chemically synthesized gene could be biologically active when introduced into bacteria.

Many of the methods developed for chemical synthesis are still used today to make DNA oligos, which are essential in fundamental techniques like polymerase chain reaction (PCR) and molecular cloning. Beyond his profound contribution to the field of biology, Gobind was an active member of the MIT community with a passion for mentoring young scientists. His colleague and close friend, Uttam RajBhandary, remembers how important it was to Khorana to connect with his students and instill a scientific curiosity that would drive the next generation of scientific progress. Aseem Ansari, who was a postdoc at MIT, knew of Khorana's accomplishments and his commitment to education and mentoring and was inspired to found a program in his name.

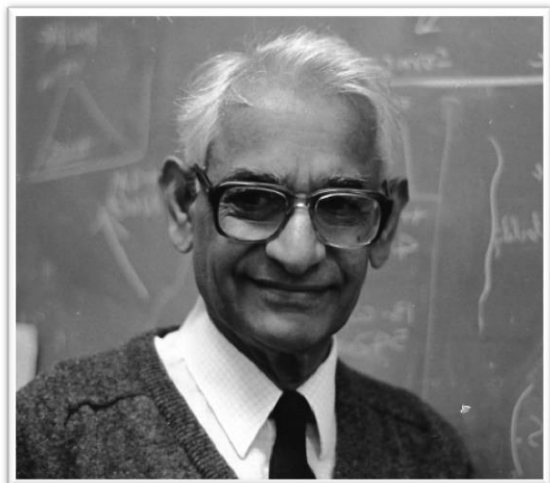
The [Khorana Program](#) was founded in 2007 by Ansari at the University of Wisconsin. The program allows India's highest ranking undergraduate students to do research for a summer term at a top U.S. university. After being selected, students are matched with a host faculty member and are given independent research projects for



the 10-week term. The government of India, through scientific agencies such as the Scientific and Engineering Research Board (SERB), provide the stipend, airfare, and health insurance for Khorana Scholars. Living accommodations and administrative fees are covered by the host institution or mentor. SERB, in partnership with the U.S. National Science Foundation (NSF), also offers funds for U.S. scholars who wish to do an 8-12 week internship in India through the U.S. Scholars Bose Program.

Uttam RajBhandary's deep friendship with Khorana spurred his active involvement, along with Mandana Sassanfar, in forming the MIT chapter of the Khorana Program in 2012. And in 2013, the program hosted 35 students across 10 different institutions. For these students, this is more than just a research opportunity; it is a chance at gaining experience and connections to make them eligible candidates to pursue graduate studies in the U.S. As one scholar phrased it, "It is really a make it or break it opportunity for us." And with this, they bring an unrivaled determination to the lab.

Many of the Khorana scholars have had success in their subsequent studies, including at our very own MIT. Vivek Dwivedi and Chetan Srinath, respectively in their third and second years of the biology PhD program, are both Khorana alumni. Dwivedi participated in the Khorana Program in 2011 at the University of Wisconsin. He recalls the Khorana



Program as “a truly life-changing experience that played a major role” in his current success, reinforcing his love of research “as well as providing ... the credentials to get through to one of the best places in the world to do biological research.” He now works in Bob Horvitz’s lab at MIT, where he studies the microRNA pathways involved in cell extrusion in *C. Elegans* as a model for small intestine extrusion biology. Srinath was in the first year of Khorana scholars to come to MIT in 2012, where he worked in Phil Sharp’s lab. Srinath is now in the Burge Lab at MIT, where he is interested in the spatial regulation of RNA decay. He attributes much of his current success to the opportunity that the Khorana Program provided. In

addition, many scholars go on to pursue degrees outside of biology. Haritha Reddy Chileveru was the first Khorana Scholar to attend graduate school at MIT. Now in her fifth year in the Nolan Lab in the Department of Chemistry, she studies the mechanism by which defensins, components of the human innate immune system, kill bacteria.

Khorana alumni feel a sense of commitment to the program and to helping future generations of Khorana Scholars. Every year when new scholars arrive, Khorana alumni and other current students serve as mentors to help the new scholars transition to life in Cambridge and to performing full time research. They are also able to provide invaluable scientific guidance and advice for graduate school admissions.

Dwivedi recalls the deep connection that typically develops between the visiting students: “About three days before we were all to depart, all of us almost simultaneously broke down and started crying because we were going to miss each other so much. It was a very strong bond that formed over the 10 weeks, and we value that even today. Professor Ansari’s vision of a seamless network of scientists, where even 10 years later we can call each other, is already becoming a reality.” Like many Indian students that come to study in the U.S., Dwivedi plans to return to India after completion of his degree and bring back what he has learned about the scientific process in the U.S. The Khorana Program is helping to

nurture the growth of an International Indian scientific community that will foster the spread of ideas and resources.

Har Gobind Khorana was known to be an exceptionally modest man among his friends. Before [passing away in 2011](#), Khorana was able to meet the third class of Khorana scholars at a meeting held in his honor at the University of Wisconsin. RajBhandary recalls Gobind’s sheer joy in meeting this group of young, motivated scientists. The program has grown beyond individual classes of students into a community of scientists. Khorana probably would have shied away from taking any credit, but because of his character, scientific prowess, and the impact he left on the people around him, the Khorana Program exists today. At MIT, his legacy is larger than life for program participants, and will continue to resonate through generations of scholars.



**2015 Khorana Scholar
Ritu Roy Chowdhury at MIT**

FOR MORE INFORMATION

- [MIT Department of Biology](#)

2015 US Scholars Reach Out from India

Students from the US, like their counterparts from India, are in their final years of undergraduate studies and were selected as Bose scholars for an 8-10 week internship at leading Indian institutions, such as National Center for Biological Sciences

(NCBS), Indian Institute of Science (IISc), TIFR, IIT's, and IISER's. These scholars experience India as research partners with a once in a life time opportunity to participate in Indian culture and work with leading Indian research scientists.



Hannah Lider

"Accepting this scholarship is doubtlessly the best decision I have ever made. I learned more about myself, my career goals, and what is important to me than I even knew was possible. The experiences I had and the connections I made this summer will be with me for a lifetime. After returning home I decided to pursue a certificate in International Engineering with a focus on Southeast Asia. I have been looking forward to my return to India since the moment I boarded the plane home."



Tenzin Paljor

"The S.N. Bose program was a great experience to conduct research and learn how it is done in another country. The experience was both scientifically and culturally enriching. I can truly say I met a lot of great people in and out of the lab".

US SCHOLARS EXPERIENCE INDIA



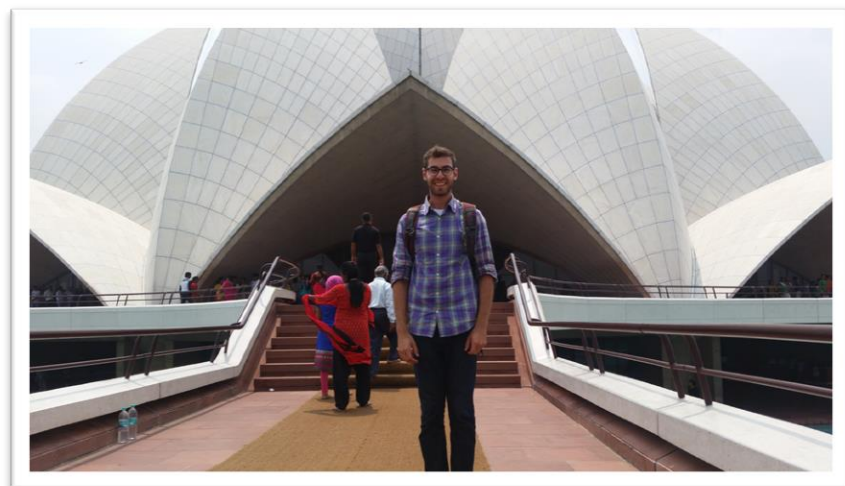
Anna Barker

"Winstep Forward gave me the opportunity to jump start my international research experience, and get in the field training at an early point in my career. This summer was an invaluable opportunity to learn about the successes and challenges of international research, and develop relationships with collaborators I hope to continue working with in the future. I can't thank the program enough!"



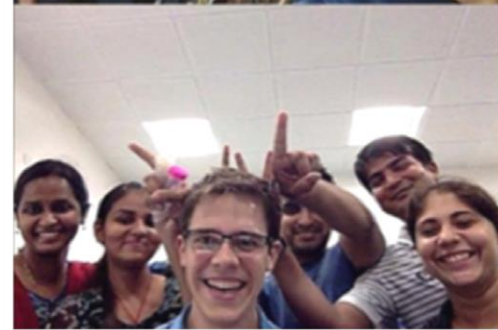
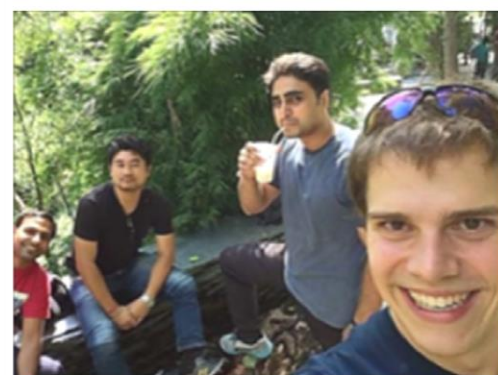
Kelli Verhoeven

"I am very appreciative of the support I received through Winstep Forward and the S.N. Bose Scholarship program. The research that I conducted in India was made possible through the generosity of this program. I had a wonderful learning experience in India which I know will be beneficial to me as I begin my career in Public Health."



Jared Landsman

"My experience in India was truly eye opening. I had the opportunity to work with a bunch of amazing people and was welcomed with open arms into a culture very different than my own. I will never forget the time I spent in India."



Christopher Johnson

"Greetings from India! I've been here at the National Dairy Research Institute, a few hours north of New Delhi, and life is good. The food is excellent, lab mates are wonderful, and the facilities are very nice!"



FOR MORE INFORMATION

- [US Scholars to India](#)

Nick Rettko – 2013 U.S. Bose Scholar



Experiences of the 2015 Khorana and Bose Scholars



Apala Chaudhuri

The S.N.Bose Scholars Program 2015 gave me the opportunity to intern in one of the premier single-molecule imaging labs in the world and also to visit a foreign land for the first time. To be honest, I was equally excited for both! My experience in the lab was exceptional in the sense that I learnt many new techniques and also got the chance to hone my microscopy skills. Imaging fluorescent proteins using a high resolution camera was a very exciting job indeed. Outside the lab, I got the chance to explore many new places, make great friends and get acquainted with an entirely different culture. It was one of the most enriching and memorable experiences of my life.



Sneha Gupta

Indeed an awesome experience excavating a new world full of exhilarating places and people with highly advanced grey matter. The day I landed in Chicago was a day to celebrate coz finally It gave me a self confidence that the journey on will be a turning point in my life. Then the next day the Grand Orientation, woha I was lucky to be a part of it. My technical knowledge got wings as I reached Lincoln, the freedom and the blend of people in my lab really added flavors to my internship.



Vaibhav Phadnis

My stay at University of Wisconsin-Madison has been highly motivating for me both professionally and personally. It provided me with the opportunity to work and interact with Dr. Kevin Eliceiri, Dr. Yuming Liu, and Dr. Aseem Ansari, the pioneers of my field who will continue to inspire me throughout my life. This Program helped me to understand the scientific quest of "light delivery modeling and simulations". The work culture at USA was something that not only inspired me but also all the young fellow Indian scholars who had been awarded Khorana Scholarship. This experience, inspiration and exposure is something that I believe will motivate all of us for the advancement of research in India and its application to solve the current challenges in the life sciences.



Saakshi Parolia

I am very fortunate my professor chose 3 students from France to work in the same lab as me. I even ended up living with them in the same apartment. This experience not only gave me a chance to work in an American university under an amazing professor but also gave me a glimpse of both American and French culture at the same time. My work was on product development so some days in the lab were very irritating while others were of sheer bliss when I got the formulation right. But, just imagine the masti levels! Thank you so very much!

Annual Symposium in Delhi, India

The Khorana Program and the S.N. Bose Program are summer exchange internships between the United States and India. Both programs run for 8-12 weeks from the end of May to the end of July, and participating students return to India by August, hitting the books for the new school year. In order to unite students, mentors, funding agencies, and policy makers, a Student Symposium was organized in New Delhi on August 22, 2015. The Symposium was sponsored by The Department of Biotechnology (DBT), Govt. of India, the Department of Science and Technology (DST), Govt. of India and the Science & Engineering Board (SERB) in partnership with the Indo-US Science and Technology Forum (IUSSTF).



Annual Symposium, Delhi. Pictured in row 2 from the bottom (left to right).

Dr. Arabinda Mitra, Dr. Rajiv Sharma, Dr. Raghu Raghavendra, Dr. Aseem Ansari, Dr. T.K. Chandrashekar, Dr. T. Ramasami, Mr. George N. Sibley, Dr. Chandrima Saha, Dr. Smriti Trikha, Priya Thomas, and Dr. Nishritha Bopana.

There were two main aims of the Symposium:

- 1) Encourage students from the programs to meet with one another, and to, "look beyond just one summer and their own immediate goals and aspirations."
- 2) Enable the scientific heads and agency officials who support and sustain the programs to learn more about the projects that the students worked on during their internships in the United States.

The Symposium provided a forum in which students not only met with each other, but also with the directors of the Khorana and Bose programs and the directors of the agencies which fund the programs. The speakers congratulated the scholars, encouraging them to maintain and build upon the collaborations and friendships they had developed - with their lab-mates in the United States as well as amongst themselves. They highlighted India's growth into a major world economy and the extensive scientific opportunities available to talented and driven future researchers in India. Delivering the Keynote Address was Dr. T. Ramasami, Former Secretary, Department of Science & Technology, Govt. of India. He encouraged the young scholars to work hard and contribute to the rapidly advancing Indian scientific community, as well as to, "forge new partnerships and help create sustainable, long-term networks in the mutual interest of both India and the United States". The US Embassy's Minister Counselor, Mr. George Sibley, also joined the program and congratulated the students. He urged the students to become "builders" of the future. Six Khorana and S.N. Bose scholars shared their experiences with the audience, thanking all the organizations involved in providing them with the opportunity and emphasizing the powerful impact the programs have made and will make in their lives. During the symposium, the program directors presented the scholars with certificates in recognition of their achievements. The scholars had the opportunity to present details of their summer research during a concluding poster session.

FOR MORE INFORMATION

- [2015 Annual Symposium Delhi](#)

How You Can Participate

There are many things you can do to participate and help grow the Khorana and Bose programs! You can also volunteer your time and ideas to some of the programs/initiatives that are being developed. Simply contact info@www.winstepforward.org and let us know how you would like to contribute or participate. Below are items that might be of interest:

- Encourage talented US students to apply for internships in India
- Host/mentor Indian scholars at your institution (for example, see page 4)
- Engage your institution in the Khorana and Bose Programs
- Build outreach and volunteer base
- Link Indian and US students to other opportunities
- Launch new initiatives (for example, see Sci-ROI on page 3)
- Social media coordination, website content management, and host events
- Design materials such as flyers, logos, etc.

Become a U.S. or India Regional Volunteer/Coordinator

We are looking for volunteers who would like to help coordinate various programs and initiatives at their institutions and their communities both in the US and India.

Identify Corporate Sponsors/Donate to a Fund

Orientation Event Fund

This fund is to help sponsor the annual Orientation we hold for U.S. and Indian Scholars before they begin their internships abroad. The annual Orientation is held in Chicago, Illinois, and your donation, or sponsorship would help to improve services and eliminate logistical challenges to hosting the event.

Scholarship Fund

The donations to this fund would be used to help sponsor U.S. or Indian students who have been selected as finalists for the Khorana/Bose Programs, but due to limited funding, are not accepted into the program. In the past, we have placed a few "honorary" scholars with successful outcomes. With your donation, we would be able to pay for uncovered costs such as housing/travel/stipend and include these talented students in the program.

Alumni Fund

If you would like to nominate exceptional students from your Alma mater as honorary scholars for the Khorana/Bose programs, consider making a donation to the Alumni Fund. This fund will enable qualified students from your Alma mater to benefit from this life-enriching experience.

Programs Fund

We offer a wide range of highly effective and life-enhancing programs (eg. Sci-ROI, Rural Development, Fellowship Programs). Your donation to these programs will help ensure their outstanding quality and longevity. A donation will make you a WinStep Forward member!

CONTRIBUTION INFORMATION

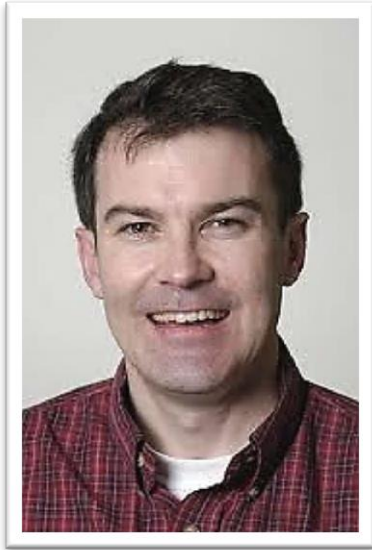
For more information regarding contributions, please see the Contributions page of the website:

www.winstepforward.org



Program Partnerships

Winstep Forward established two new collaborations at UW Madison to host the 2015 batch of Khorana and Bose scholars. It is through the [Division of Continuing Studies \(DCS\)](#) that Dr. Martin Rouse, Assistant Dean of DCS, was able to help guide the administrative operations of the Khorana and Bose Programs at UW-Madison. Professor Parmesh Ramanathan, a faculty member in [UW Madison's College of Engineering](#), was the faculty-host of the 2015 Khorana and Bose Scholars at UW Madison. WINStep looks forward to continuing our relationship with Dr. Rouse and Professor Ramanathan as hosts of the Khorana and Bose Programs at UW.



Host: Martin E. ROUSE

Assistant Dean and Director

UW-Madison Department of Continuing Studies

Email: martin.rouse@wisc.edu



Host: Parameswaran RAMANATHAN

Professor

UW-Madison Department of Electrical Engineering

Email: parmsesh@ece.wisc.edu



Congratulations! Moving Forward!

Kelsey WILKOSZ

*Former Program Administrator
at UW-Madison*

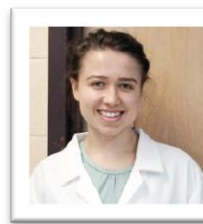
Email: kwilkosz@wisc.edu



Naveeda QADIR

Executive Director, Winstep Forward

Email: qnaveeda@winstepforward.org



Eric HORN

Associate, Winstep Forward

Email: eric@winstepforward.org



Dr. Piyush LAL

Sci-ROI Leadership

Email: plal2@wisc.edu













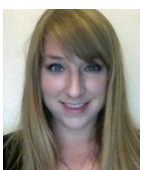
Dr. Ashish RANJAN

Sci-ROI Leadership

Email: ashishranjan2005@gmail.com



Meet the 2015 US Bose Scholars

	Daniel Howard Host: TIFR- CAM-Bangalore Mentor: Dr. Chandrasekhar Notre Dame		Lucas Holiday Host: IISER-Pune Mentor: Dr. Nadkarni UW-Madison		Tenzin Paljor Host: IISC-Bangalore Mentor: Dr. Surolia UW-Madison
	Christopher Johnson Host: NDRI-Karnal Mentor: Dr. Grover UW-Madison		Kelli Verhoeven Host: MMH-Gurgaon Mentor: Dr. Sengupta UW-Madison		Hannah Lider Host: NCBS-Bangalore Mentor: Dr. Thirumalai UW-Madison
	James Olson Host: IISC-Bangalore Mentor: Dr. Ghosal UW-Madison		Anna Barker Host: MMH-Gurgaon Mentor: Dr. Ahsan UW-Madison		Debayon Dutta Host: IIT-Delhi Mentor: Dr. Basu St. Univ. of New York
	Jared Landsman Host: CEPT-Ahmedabad Mentor: Dr. Rawal UC-Berkeley		Cristen Molzahn Host: NCBS-Bangalore Mentor: Dr. Udgaonkar UW-Madison		



Meet the 2015 Khorana Scholars

	Harsha Gurani Host: Brandeis Mentor: Dr. Marder IIT-Bangalore		Kaustav Bera Host: Case Western RU Mentor: Dr. Gurkan IIT-Kharagpur		Apurva Gajwani Host: Cornell Mentor: Dr. Datta IIT-Kharagpur
	Anukriti Mathur Host: Harvard Mentor: Dr. Mayadas BITS-Pilani		Vaishali Yadav Host: Harvard Mentor: Dr. Kunes IIT-Bombay		Anjali Priya Host: Indiana Mentor: Dr. Mitra Cochin University
	Chiti Arvind Host: Harvard Mentor: Dr. Riehl MCC-Bangalore		Sanjana Ravindran Host: Indiana Mentor: Dr. Bochman VIT-Vellore		Saakshi Parolia Host: Iowa State Mentor: Dr. Rosentrater Jadavpur University
	Charul Agarwal Host: John Hopkins Mentor: Dr. Leung IIT-Delhi		Kshitji Agarwal Host: John Hopkins Mentor: Dr. Thakor IIT-Kanpur		A. Srinivasamani Host: Medical Coll. of WI Mentor: Dr. Malarkannan Saviribai Phule Pune
	Kalki Kukreja Host: MIT Mentor: Dr. Gilbert IIT-Delhi		Ritu Roy Chowdhury Host: MIT Mentor: Dr. Sur IISER-Mohal		Rohan Kumar Host: UW-Madison Mentor: Dr. Blackwell IIT-Madras
	K. Devendrakumar Host: Michigan State Mentor: Dr. Sticklen TNAU-Coimbatore		Shobhit Patoria Host: Rice Mentor: Dr. Tabor VIT-Vellore		Debalina Datta Host: Rutgers Mentor: Dr. Nanda University of Hyderabad



	Jaydeep Paul Host: Syracuse Mentor: Dr. Korendovych NISER-Bhubaneswar		Sahana Dinesh Rao Host: UC-San Diego Mentor: Dr. Baker IISc-Bangalore		Nandhitha Venkatesh Host: WU-St. Louis Mentor: Dr. Pakrasi SASTRA-Thanjavur
	Reshma Jamal Host: Illinois (UIUC) Mentor: Dr. Anakk BITS Pilani-Hyderabad		Sruti Devendran Host: Illinois (UIUC) Mentor: Dr. Punyasena NIT-Calicut		Bhanu Somashekar Host: Illinois (UIUC) Mentor: Dr. Prasanth BITS-Pilani
	Vikramjit Lahiri Host: Michigan Mentor: Dr. Buttitta University of Calcutta		Rajasri Purama Host: Nebraska Mentor: Dr. Mower NIT-Warangal		Sneha Gupta Host: Nebraska Mentor: Dr. Gu NIT-Raipur
	Shreya Nahata Host: Pennsylvania Mentor: Dr. Avadhani IIT-Roorkee		Urvi Shroff Host: USC Mentor: Dr. Peti-Peterdi Savitribai Phule Pune		Shreya Gupta Host: Texas, Austin Mentor: Dr. Baker IIT (BHU)-Varaasi
	Abhisarika Patnaik Host: Utah Medicine Mentor: Dr. Shcheglovitov IIT-Bombay		Natashia Sydney Host: Virginia Tech Mentor: Dr. Elankumaran KIIT-Bhubaneswar		Shravanti Krishna S Host: Virginia Tech Mentor: Dr. Abbas RES-Chennai






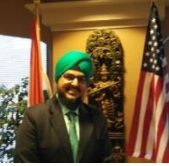


	V. Balachandran Host: UW-Madison Mentor: Dr. Bement SASTRA-Thanjavur		Jyotsna Misra Host: UW-Madison Mentor: Dr. Rayment GBU-Noida		Mona Katariya Host: UW-Madison Mentor: Dr. Gellman IISER-Pune
	Debayan De Bakshi Host: UW-Madison Mentor: Dr. Cryns VIT University, Vellore		Navneet Singh Host: UW-Madison Mentor: Dr. Gourse USB GGS Indraprastha		Aarathi Sankar Host: UW-Madison Mentor: Dr. Attie BITS-Pilani
	Vaibhav Phad Host: UW-Madison Mentor: Dr. Eliceiri IIT-Hyderabad		Priya Chittur Host: UW-Madison Mentor: Dr. Record Anna University-CTU		Kaivalya Molugu Host: UW-Madison Mentor: Dr. Xing IISC-Bangalore
	Ranjan Mukherjee Host: UW-Madison Mentor: Dr. Ansari IIT-Kharagpur		Anil Chokkalla Host: UW-Madison Mentor: Dr. Ansari IIT-Madras		Amrutha V Host: UW-Madison Mentor: Dr. Ganetzky IISER-Bhopal
	Swaathi Ratna S Host: UW-Madison Mentor: Dr. Markley Anna University-Alagappa		Dileep Kishore Host: UW-Madison Mentor: Dr. Reed IIT-Madras		Naveen G Host: UW-Madison Mentor: Dr. Webster CMC-Vellore
	Kanmani Rajan Host: Michigan State Mentor: Dr. Hong Anna University		Saranya G. Host: Rice Mentor: Dr. Bennett RV COE-Karnataka		

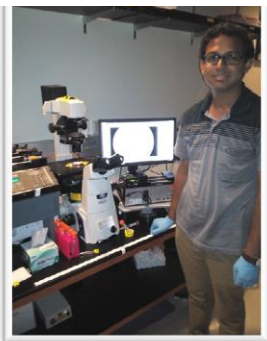
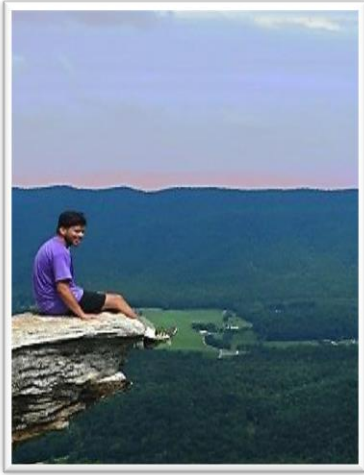
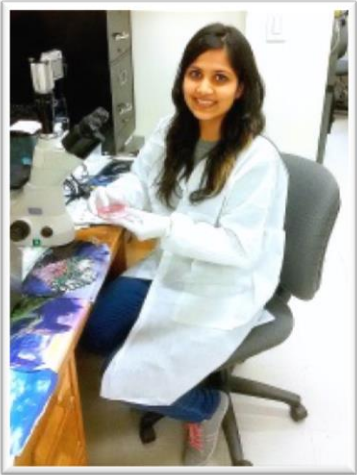



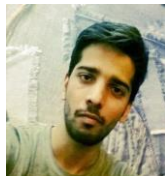







Meet the 2015 S.N. Bose Scholars

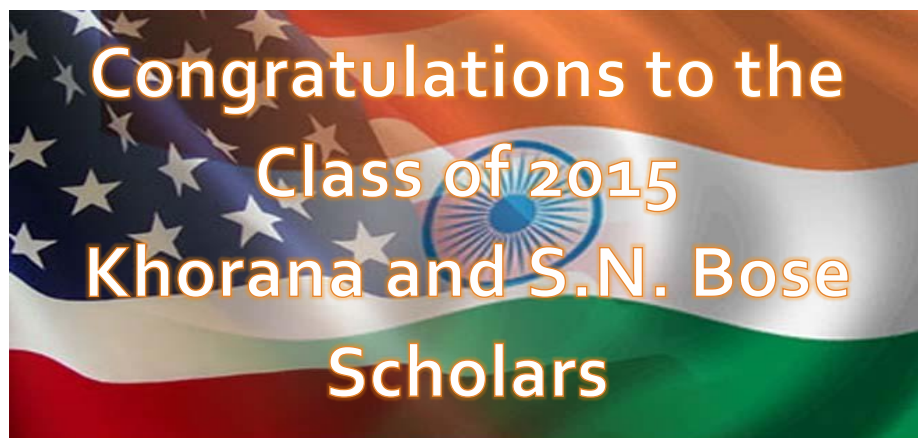
	Aashish Bhardwaj Host: Caltech Mentor: Dr. Kochmann IIT-Ropar		Aditi Chatterjee Host: Caltech Mentor: Dr. Eiler IIT-Kharagpur		Suman Ghost Host: Carnegie Mellon Mentor: Dr. Bigham Jadavpur University
	Ayush Tomar Host: Carnegie Mellon Mentor: Dr. Pfeffer Delhi Tech. University		Vivek Pandey Host: Case Western RU Mentor: Dr. Ishida IIT-Roorkee		Shelly Aggarwal Host: Cornell Mentor: Dr. Lal IIT-Madras
	Phalguni Shah Host: Cornell Mentor: Dr. Levine Mumbai-DAECEBS		Kazi Ranjibul Islam Host: Harvard Mentor: Dr. Lukin IISER-Kolkata		Subrata Singha Host: UT-Austin Mentor: Dr. Sen ISM-Dhanbad
	Samprit Ghosh Host: LSU Mentor: Dr. Hoffman IIT-Bombay		Rishav Choudhary Host: MIT Mentor: Dr. Ghoniem IIT-Kanpur		Priyanga Ganesan Host: Michigan State Mentor: Dr. Schenker NISER-Bhubaneswar
	Shruthi Kumarraj Host: Missouri UST-Rolla Mentor: Dr. Leventis CSIR-Karaikudi		Lois Thomas Host: NCAR Mentor: Dr. Grabowski Savitribai-Phule Pune		Kartikeya Sangwan Host: Ohio State Mentor: Dr. Lyons University of Delhi
	Soumya Wadhwa Host: Ohio State Mentor: Dr. Parthasarathy IIT-Guwahati		C. Bhattacharya Host: Pennsylvania State Mentor: Dr. Ray Jadavpur University		Poulami Chakraborty Host: Pennsylvania State Mentor: Dr. Carrol IIT-Guwahati
	Aprameya Prasad Host: Purdue University Mentor: Dr. Yeo NIT-Surathkal		Ujash Shah Host: Purdue University Mentor: Dr. Ardekani BITS-Goa		Ashish Daga Host: Purdue University Mentor: Dr. Garimella IIT-Kharagpur

	Rajath Kantharaj Host: Purdue University Mentor: Dr. Fisher BITS-Pilani		Brinda Kuthanazhi Host: Purdue University Mentor: Dr. Fisher IISER -Thiruvanantharm		Shristi Singh Host: Stanford Mentor: Dr. Fuller NIT-Warangal
	Robin Singh Host: Stanford Mentor: Dr. Kothapalli NIT-Surathkal		Aditi Raghunathan Host: Stanford Mentor: Dr. Liang IIT-Madras		Soumya Kanungo Host: Oklahoma Mentor: Dr. Shaffer NISER-Bhubaneswar
	Arjun Vijeta Host: Pennsylvania Mentor: Dr. Kozlowski IISER-Pune		Khyathi Chandu Host: Pennsylvania Mentor: Dr. Nenkova IIT-Hyderabad		Shilpa Vijay Host: USC Mentor: Dr. Luhar COE- Pune
	Pranav Gupta Host: USC Mentor: Dr. Knoblock BITS-Pilani		Aishwarya Rath Host: USC Mentor: Dr. Luhar SVNIT-Surat		Rishav Roy Host: USC Mentor: Dr. Carlo IIT-Kharagpur
	Vusirikala Satyanarayana Host: USC Mentor: Dr. Zhang IIT-Guwahati		Shalini Gupta Host: UC-San Francisco Mentors: Dr. DeGrado IIT-Kanpur		Apala Chaudhuri Host: Illinois-UC Mentor: Dr. Ha IIT-Kanpur
	Apoorva Joshi Host: University of Iowa Mentor: Dr. Sonka VIT-Vellore		Koushik Chatterjee Host: University of Iowa Mentor: Dr. Kaaret IIT-Kharagpur		Partha Pratim Dutta Host: Michigan Mentor: Dr. Gianchandani IIST-Shibpur
	Soumya Ranjan Sahoo Host: Minnesota Mentor: Dr. Schillinger NIT-Rourkela		Abhishek Kumar Host: Minnesota Mentor: Dr. Hong NIT-Jamshedpur		Srishti Bhutani Host: Minnesota Mentor: Dr. Schultz NIT-Kurukshetra

	Shashwat Kumar Singh Host: Minnesota-DES Mentor: Dr. Bezada IISER-Kolkata		Ishan Manjani Host: Notre Dame Mentor: Dr. Bowyer IIT-Delhi		Sooraj Ben K.R. Host: Notre Dame Mentor: Dr. Kamat IISER-Thiruvananthapm
	Jatindeep Singh Host: Washington Mentor: Dr. Kannan IIT-Gandhinagar		V. Avadiappan Host: UW-Madison Mentor: Dr. Maravelias IIT-Madras		B. Prabhune Host: UW-Madison Mentor: Dr. Suresh COE- Pune



	Kalind Baraya Host: UW-Madison Mentor: Dr. Pfotenhauer IIT-Guwahati		Alok Sharma Host: UW-Madison Mentor: Dr. Mitchel FMS- Delhi		Ravi Srivastava Host: UW-Madison Mentor: Dr. Tambar IIT-Gandhinagar
	Shaurya Garg Host: Virginia-PISU Mentor: Dr. Kapania PEC-Chandigarh		Akshat Jain Host: UT-Austin Mentor: Dr. Maes ISM- Dhanbad		Sidhyansh Saxena Host: Rice University Mentor: Dr. Sabharwal IIT-Madras
	Aashiq Muhamed Host: Stanford Mentor: Dr. Lele IIT-Roorkee		Ramudu Kolisetty Host: USC Mentor: Dr. Bogdan BITS-Hyderabad		Aniket Sunil Joshi Host: Pennsylvania Mentor: Dr. Sonka IISER-Pune



FOR MORE INFORMATION

- [2015 US Bose Scholars](#)
- [2015 Khorana Fellows](#)
- [2015 S.N. Bose Fellows](#)

PROGRAM CONTACT INFORMATION

For more information on the prestigious Khorana and S.N. Bose Scholar Program, please email us at info@winstepforward.org or visit Winstep Forward at:

www.winstepforward.org

