Fundraising & Alumni Relations
2015-18

Office of Development and Alumni Affairs (ODAA)
Indian Institute of Science
Message from the Director

The Indian Institute of Science owes its establishment to the generosity of not only the founder Jamsetji N Tata, but also Krishnaraja Wadiyar, the Maharaja of Mysore, and his mother, who generously donated 371 acres of land in the heart of Bengaluru. Since its founding, the Institute has remained unwavering in its pursuit of excellence in research and education. It has seeded several science and technology institutions in the education and industrial sectors, and played a vital role in critical national programs. Its faculty members have made significant contributions to emerging research areas. It was recently declared as an Institution of Eminence by the Government of India. Most importantly, it has produced over 20,000 outstanding graduates who have made their mark in diverse science and technology fields.

The Institute’s mission has been bolstered by support from its alumni, philanthropists and well-wishers who have contributed generously to its development. To strengthen this ecosystem, an Office of Development and Alumni Affairs (ODAA) was set up at IISc in 2015. In the last three years, many alumni, corporates and philanthropists have supported several initiatives at IISc through Corporate Social Responsibility (CSR), endowments and grants.

We invite you to consider supporting IISc in any way that you can, and become a partner in its advancement, as it forges ahead with its vision to become one of the world’s most reputed institutions.

ANURAG KUMAR
DIRECTOR
INDIAN INSTITUTE OF SCIENCE

Message from the Chair

In recent years, IISc has witnessed a surge of support from philanthropists, alumni & corporate partners who have made generous contributions towards various education and research initiatives.

At the IISc Challakere campus for example, a 75,000 sq. ft. HAL-IISc Skill Development Centre is being established with CSR support to train hundreds of unskilled personnel. HT Parekh Foundation is funding training programs in sustainable housing technologies for local villagers, unemployed youth and NGOs.

At the IISc Bengaluru campus, alumni contributions and CSR grants are fostering research in infectious diseases, bioengineering, deep learning and IoT; strengthening infrastructure for labs and classrooms; and empowering students through scholarships and travel grants. Such initiatives have not only improved the quality of research and education at IISc, but have also inspired novel solutions for critical societal needs.

To professionalize our development and outreach activities and to provide robust administrative support to our well-wishers and contributors, the Office of Development and Alumni Affairs (ODAA) was set up in 2015. This report provides a summary of the outcomes from the institute’s efforts to boost fundraising and alumni relations in the last three years. We invite all contributions, small or large, and look forward to your support in taking IISc to greater heights.

G RANGARAJAN
CHAIR, DIVISION OF INTERDISCIPLINARY RESEARCH
IN-CHARGE, OFFICE OF DEVELOPMENT AND ALUMNI AFFAIRS
The Office of Development & Alumni Affairs was established in 2015, as an administrative unit of IISc under the Chair, Division of Interdisciplinary Research.

It aims to build a vibrant community of alumni, friends, partners and well-wishers, and raise funds to support the Institute’s mission and its advancement, as mandated by the Governing Council of IISc.
Funds Raised (2015-2018)

139 crores
Sanctioned CSR Projects

53 crores
Sanctioned Grants & Philanthropy

3 crores
Alumni Contributions

*Alumni have played a critical role in helping IISc raise these substantial funds*
Sanctioned CSR Projects (2015-18)

Skill Development Centre
Hindustan Aeronautics Limited
73.7 crores

New Women's Hostel Block
Bharat Petroleum Corporation Ltd
19.8 crores

Dissemination of low-carbon housing tech
HT Parekh Foundation
5 crores

Teachers' training & experimental kits for rural schools
L&T Tech Services
2.76 crores

Education, outreach & infrastructure development @ CSA
Sonata Software
1.07 crores

PhD scholarships
Cisco
Tata Motors

Research support
Amazon India
Triveni Turbine
Hewlett-Packard
Infosys Foundation
Medtronic

Sustainability initiatives
Rural Electrification Corp
Bharat Dynamics Limited

Workshops/Training
Broadcom India
GE India Tech Centre

Chairs & Young Investigator Positions
Infosys Foundation
Adventz Finance
HAL-IISc Skill Development Centre

"This will go a long way in recognizing and honing skills and providing opportunities for youth at various levels in line with the Government’s Skill India initiative"
- Suvarna Raju, former CMD, HAL

More than 11,000 science and math teachers have benefitted from IISc’s unique teachers’ training program which was started in 2011 at its Challakere campus. The tremendous success of this novel initiative gave the impetus for an ambitious skill development centre that would provide training in key engineering areas to a wide variety of stakeholders from across the country.

With generous CSR support extended by Hindustan Aeronautics Limited, the HAL-IISc Skill Development Centre is nearing completion at IISc Challekere.

Construction of the building is expected to be completed in January 2019. The Centre will house a 250-seater auditorium, classrooms, science labs, workshops, a technology demonstration hall, and several other facilities. It will also provide residential and dining facilities for 250 trainees at a time.

Starting 2019, programs at different levels will be offered in areas including manufacturing processes, electronic systems engineering and skills relevant to aerospace and allied sectors.

Beneficiaries will span a wide variety of community members including teachers in polytechnic and ITI colleges, practising tradesmen and engineers, and high-end professionals in various sectors. About 1000 trainees are expected to benefit from these training programs each year.
With the help of a generous CSR grant from the HT Parekh Foundation, researchers at the Centre for Sustainable Technologies (CST), IISc, are organizing training and capacity building programs on novel, sustainable housing technologies for the benefit of people in rural and semi-urban habitats.

The grant supports the construction of a new training and demonstration centre at IISc Challakere, which is nearing completion. It also supports the organization of regular training programs benefiting a wide range of users, including engineers, farmers, artisans, unemployed youth and NGOs.

Sonata Software Limited has made a CSR contribution to support several outreach programs organized by the CSA Department at IISc. These initiatives aim to inspire students from across the country to pursue research and higher education in computer science and engineering.

The initiatives include an orientation program on research and higher education for GATE toppers, a summer school that exposes undergraduate students to emerging areas, and a 3-month long immersive internship program. The funding also directly supports cutting-edge research through faculty grants, as well as infrastructure upgrades to boost the quality of education offered to students.
Endowed Chairs & Research Support: Infosys Foundation

In 2015, Infosys Foundation contributed 21.2 crores to support several Visiting Chair Professorships & in 2017, several Young Investigator positions in the Division of Physical & Mathematical Sciences at IISc. These positions aim to bring outstanding researchers from around the world to IISc, as well as recognize bright young researchers in these areas.

**Infosys Young Investigators**

- **Apoorva Khare**
  - Research areas: Positivity and analysis; representation theory of Lie algebras and algebras with triangular decompositions; combinatorics and discrete mathematics

- **Subhojyot Gupta**
  - Research areas: Teichmüller theory, low dimensional geometry and topology

- **Vamsi Pritam Pingali**
  - Research areas: Differential geometry, several complex variables, mathematical physics

- **Chandini U**
  - Research areas: Electron transport, 2D electron systems in graphene & other layered materials, van der Waals heterostructures and ultrathin metallic wires

- **Tanmoy Das**
  - Research areas: Correlated and high-Tc superconductivity, strongly correlated systems, topological insulators & quantum Hall systems, spin-orbit density wave

- **Vibhore Singh**
  - Research areas: Cavity-optomechanics, superconducting quantum circuits, nanomechanics, electron transport in low-dimensional systems

- **Nirupam Roy**
  - Research areas: Astronomy & astrophysics, interstellar medium, galactic novae, radio astronomy

- **Sumilan Banerjee**
  - Research areas: Thermalization, quantum chaos and localization in quantum many-body systems, quantum phase transitions in interacting disordered system, chiral magnetism & skyrmions, correlated electronic systems

**Infosys Visiting Chairs**

- **Jainendra Jain**
  - Physics
  - Pennsylvania State University

- **Susanne Brenner**
  - Mathematics
  - Louisiana State University

- **Xerxes Tata**
  - Physics
  - University of Hawaii at Manoa

The Infosys Foundation is also supporting state-of-the-art infrastructure (including a BSL-3 facility), cutting-edge research, and dissemination & training programs at the Centre for Infectious Diseases Research.
Major Philanthropic Contributions (2015-18)

- JN Tata Chair, JRD Tata Chair, Homi Bhabha Chair - **12.6 crores**
  Tata Trusts

- Enhanced PhD Scholarships - **2.62 crores**
  Estate of Late Krishna Kaikini

- RI Mazumdar Young Investigator - **1.05 crores**
  Ms. Kiran Mazumdar-Shaw

- New Women's Hostel Block - **20 crores**
  Jindal Aluminium Group

- Augmenting Critical Positions at IISc - **8.79 crores**
  Tata Education Trust

- Furnishing new Chemical Sciences auditorium - **5 crores**
  Avra Labs

- Support for Research Projects - **1.5 crores**
  Microsoft Research India, VMware

- New Auditorium @ IAP Department - **75 lakhs**
  Mr. SV Narasaiah
Even before ODAA was set up in 2015, IISc received a generous gift from the Pratiskha Trust (run by Mr. Kris Gopalakrishnan & Mrs. Sudha Gopalakrishnan) to establish the Centre for Brain Research (CBR). The gift has enabled several important initiatives in brain research & neuromorphic computing.

**Research & Infrastructure**

**SANSCOG Study:** Longitudinal studies of 10,000 aging subjects

**Genome India:** Whole genome sequencing for Indian population

**New CBR Building**

**Visiting Chairs in Neuromorphic Computing**

- **Shihab Shamma**
  Univ. of Maryland
  Shri. K. Vaidyanathan
  Distinguished Chair

- **Vasant Honavar**
  Penn State
  Smt. Sudha Murty
  Distinguished Chair

- **Christos Papadimitriou**
  Columbia
  Pratiksha Trust Distinguished Chair

**Pratiksha Trust Young Investigators**

- **Chetan Singh Thakur**
  DESE

- **Sriram Ganapathy**
  EE

- **Prasanta Kumar Ghosh**
  EE

- **Sridharan Devarajan**
  CNS
In 2016, Kiran Mazumdar-Shaw made a contribution to IISc to set up the R. I. Mazumdar Young Investigator endowed position, aimed at encouraging bright young faculty members to pursue cutting-edge research in Bioengineering and related areas. The fund provides a salary top-up and an unrestricted annual research grant. Siddharth Jhunjhunwala, Assistant Professor, BSSE, IISc, was selected as the first R. I. Mazumdar Young Investigator.

Supported by the endowment, Jhunjhunwala has established an immunoengineering laboratory at IISc which focuses on a cross-disciplinary effort combining elements from drug delivery and materials science, to study and engineer the immune system.

One of the projects that his lab has worked on is developing coatings for drug delivery systems that would target delivery and reduce non-specific biological interactions. His team made significant progress in identifying how polyethylene glycol (the most commonly-used surface coating) and protein coatings affect the interaction of micro-particles with immune cells.

Another experiment focused on developing nano drug delivery vehicles for the delivery of anti-cancer peptides, in collaboration with researchers in the Department of Molecular Reproduction, Development & Genetics, and the NMR Research Centre at IISc.

His lab is also looking at understanding chronic inflammatory responses in diabetics, especially in individuals who get ulcers, and to develop treatment strategies for these ulcers.
In order to address the gender inequality in science & engineering, IISc is keen on encouraging more women students to pursue higher education & research.

Women students constitute 25% of the student population; the institute seeks to improve this proportion significantly in the next few years. To accommodate this growing population, IISc has begun the construction of a new 500-room women’s hostel with 3 blocks.

Jindal Aluminium Group has come forward to support the first of these two blocks, to be named after Dr. Sitaram Jindal, Founder, Jindal Aluminium Limited. The second block is being supported under CSR by Bharat Petroleum Corporation Limited. Efforts are on to secure funding for the third block from various organizations.

IISc has recently decided to established several endowed Chairs and Young Investigator positions to recognize outstanding contributions by faculty members in their respective fields. The institute aims to establish 90 such positions, out of which 10 are for faculty members at the Professor level.

The first three of these Chairs was established with a generous endowment from the Tata Trusts, in the names of JN Tata, JRD Tata and Homi Bhabha. The Chairs are currently occupied by Prof. DD Sarma (SSCU), Prof. V Kumaran (Chem Engg) and Prof. Sriram Ramaswamy (Physics).

The Chairs provide a generous top-up to the salary of the selected faculty members, as well as unrestricted annual research grant, encouraging them to scale greater heights in their respective fields.
Alumni Engagement

Alumni Networking Portal

4500+ verified alumni users
Global alumni connect
Newsletters & announcements
Mentorship & Careers

www.alumni.iisc.ac.in

Events

Annual Alumni Reunion - December

Batch Reunions
Alumni Support (2015-2018)

Major Alumni Contributions

- Fund for Biomedical Research
  Dr. Vijaya & Rajagopal Rao
  Rs. 1.42 crores

- UG Scholarships in Materials Engineering
  Dr. Brij Seth
  $175,000

Procuring research equipment @ MBU - Anonymous
Rs. 50 lakhs

Lakshmi & Aravamudan Student Travel Fund - Mr. Murali Aravamudan
Rs. 35 lakhs

ECE Photonics Fund - Prof. A Selvarajan & Mrs. Indira Devi
Rs. 20 lakhs

Travel Funds & Hosting Students

A critical challenge for IISc students is the shortage of support for travel to international conferences. In recent years, several alumni have stepped forward to provide travel grants and open up their homes to host students abroad.

"Attending a conference outside India is quite expensive and almost impossible to attend without financial support...The academic insights gained in the conference and the feedback obtained for the observations of my doctoral studies, will be of immense help in my current graduate studies, and will definitely aid in shaping my future research career as an independent scientist."

-Supriya Vartak (PhD, Biochemistry), supported by the D Nagarajachar Travel Fund (set up by an alumnus), to present her work at the 7th World Congress on Targeting Mitochondria in Germany in 2016

"I was hosted by IISc Alumnus Prof. Milind Mahajan in his residence. They treated me like their own family member. They helped me with all the aspects of this trip like accommodation, travel, food, shopping, moral support, building relationships."

-Naveen Ramu (PhD, Management Studies), hosted by an alumnus to attend the Summer Youth Assembly at New York City in 2017
Other Contributors
(Apr 2015- Mar 2018)

IISc is extremely grateful to all its benefactors and well-wishers who have contributed to its advancement.

**Departmental Initiatives**

**UG Scholarship in Mat Engg**
ERC Shekar

**KPA Abraham Chair (Mat Engg)**
Ram Sridhar
Srinivasa Ranganathan
Govind Gupta
IIIMB Chapter Conference - ICMR
Dheepa Srinivasan
Seshadri Seetharaman
Intech DMLS
Krishnan Naganathan
VS RAJA
Tata Steel
Venkatakrishnan S
Arunkumar S
Brainard Samuel Sunder Daniel
ASSR Reddy

**Bioengg Summer Training Program**
Anita & Animesh Mukherjee

**ECE Alumni Research Fund**
Sudipta Kundu
Anasuya Devi H K
Narasimha Murthy S L
Sudipta Kundu
Krish Vijayaraghavan
Anonymous
Vasantha M K
Swamy A K
Seetharaman C K
Ram Manohar
Bhaskar Goswami
Srinivas K. S.
Jayant N S Dr
Lalith Rao J
Raman S
S S Madan
Babu Chitrabu
Adesh Chandra Jain
Radhakrishna Rao M S
Jagan NC

Ramakrishna Sastry R V
Ramakrishna Hegde K
Prakash Ramchandra
Chalapati Rao Kasarabada
Ashok Waran
Shashi Kant Anand
Mymo Wireless

**Chem Engg Summer Internship**
KS Gandhi
Anonymous
Vishwajeet Mehandia
Sivakumar S
Anonymous
Tukaram Suryawanshi
Rajinder Kumar
Ajoy Pavan Kumar KY
Subbarao Kommuri
Vaidyanathan Sethuraman
Mohit Bajaj
Anonymous
Amit Katiyar
Anugrah Singh
Senthil Kumar Vadivelu
Hrishikesh Balakrishnan
Siva Rama Krishna Peral
Vinay S Kandagal
Shrihari Honwad
Sai Krishna Gadham Shetty
Keya Biswas
Prasad Reddy
Tushar Parate
Ganesan Srinivasan
Srinivasa Mohan
Amol Kumar Thakre
Sundar Raman

**Civil Engg classroom renovation**
Karnataka Geotechnical Centre
GL Sivakumar Babu
Pradeep Mujumdar
Anonymous

**M. Tech scholarships @ CDS**
Target, Tesco, Wipro GE Healthcare,
Intuit, Microsoft, Cargill

**CSA Research Endowment**
Biswaudeep Nag
Apurba Kumar Saha
Accel Partners
Integra Micro Systems & Integra
Micro Software Services
Anonymous
Anonymous

**Other Initiatives**

**Fundraising & Alumni Relations**
IISc AANA
Kripasagar Bolar
Sunit Kumar
Sunit Varanasi

**Student Travel Funds**
Anonymous
PV Lakshminarayana

**Student Amenities Centre**
1967 BE Golden Jubilee Reunion
Ashok Waran
Shashidhar Putta

**Support for Research Initiatives**
Sandip Mukherjee
Prasad PBN
Shantanu Shrikant Nalage
Vedu Mitter
Vipin Gupta
R Vasudevan

**Support for Teacher Training**
N V R Vikram G
Prasad PBN
KVS Hari
Anonymous
Krishna AR

Full list of funds & donors: https://www.alumni.iisc.ac.in/fundraising
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