

Impact of your Giving in 2023



**Celebrating the
generosity of**

Dr. Arvind Rajan



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
OFFICE OF ALUMNI AND CORPORATE RELATIONS

Prof. Kamakoti Veezhinathan Director, IITM



Greetings!

IIT Madras continues to retain her top position for the eighth consecutive year, in the National Institute Ranking Framework, thanks to the world-class research of its faculty and students. The contribution and support of *Alumni and well-wishers like you* has crucially helped this standing and stature. Our achievements in research, education, innovation and entrepreneurship have also earned us the recognition of an 'Institute of Eminence' as well as the top position in the Atal Innovation Ranking from the Government of India.

The institute is making an indelible mark with her '*research with impact*' in several areas including quantum computing, drinking water technology, industrially relevant mathematical models for governance, rendering cancer-cure more effective. Our centres of excellence, the Center for Innovation, Nirmaan – the pre-incubator, the Incubation Cell, technology centres such as '*IITM-Pravartak*' and others, work in unison for not just our nation's building, but societies *world-wide*. We aspire to be locally impactful and globally relevant through all these efforts.

Towards exploring new research frontiers, a Department of Medical Sciences and Technology has been launched to conjoin medicine and engineering. Similarly, a School of Sustainability is on the horizon to research sustainable practices in the Global South. The campus is moving towards 'carbon-net-zero' goal through water conservation by 100% recycling, efficient garbage disposal, and electrification of vehicles. The traditional education system is undergoing a paradigm shift, with our online Bachelor of Science programme in Data Sciences and the National Program of Technology Enhanced Learning, that have won Gold in the 'Lifelong Learning' category and Silver in the 'Best Online Program' category of the Wharton-QS Reimagine Education Awards 2022 respectively. IIT Madras is leading this revolution from the front.

Such achievements are not possible without the deep-rooted faith and support of alumni and well-wishers such as yourself. We are indebted to you for your generous, bountiful, and impactful contributions. On behalf of IIT Madras, I offer you our deepest gratitude for continuing to strengthen the Institute. Together with your support, we are confident of building an IIT Madras that is more inclusive, diverse, and enabled by an ecosystem to be nationally relevant and globally recognised. Thank you!

Prof. Mahesh Panchagnula
Dean, Alumni & Corporate Relations, IITM



Greetings!

I express my heartfelt gratitude to you for your generous support to IIT Madras. We appreciate your passion in supporting the causes you do and I assure you that your contributions will be optimally utilized. This report has been compiled to convey how your largesse has touched lives and made a difference at IIT Madras. In keeping with the rapid, contemporary strides in science, technology we have set ambitious goals for ourselves - your continued enthusiasm and support will help us greatly in these endeavors.

IIT Madras is far more diverse in its set of pursuits, more green and more research-focused. And yet, it remains unchanged over these years, it is still the best Institute in the country, and attracts the best students that India has to offer to come and make a mark. I also cordially invite you to visit your campus to see for yourself, the impact of your contribution, and the growth and transformation the Institute has undergone over the years.

We can never express our gratitude enough for all that you have done - Thank You!

Dean's Message



Dr. Arvind Rajan

[1981/BT/ME]

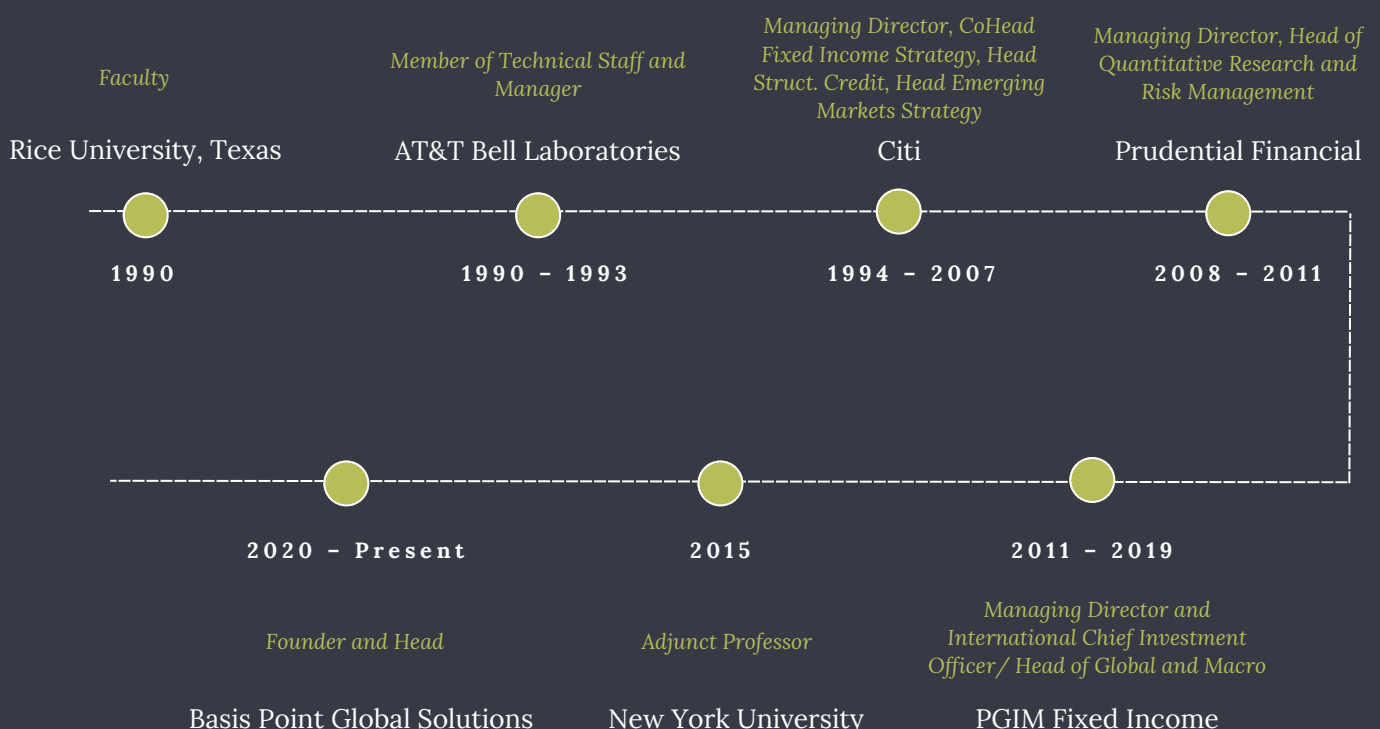
Founder and Head, Basis Point Global Solutions



Dr. Arvind Rajan is a highly respected veteran in the financial markets, renowned for his extensive expertise across various asset classes, including Emerging Markets, Global bonds, Asset Backed Securities (including Subprime), Structured Credit, and Corporate debt. As the Co-Founder and Managing Partner at Basis Point Global Solutions, Arvind Rajan has played a pivotal role in the success and growth of the company. Dr. Arvind has demonstrated his proficiency in navigating complex financial landscapes with a wealth of experience in fixed-income investment, macro analysis, proprietary trading, quantitative research, derivatives, modelling, and risk management.

Dr. Arvind's educational background includes a Master's and Ph.D. in Operations Research from Northwestern University. During his studies, he specialised in quantitative methods, gaining a deep understanding of applying AI/ML and data science techniques to asset management. Additionally, he holds a Bachelor's degree in Mechanical Engineering from the esteemed Indian Institute of Technology, Madras. His diverse educational foundation enables him to bring a unique perspective to the financial markets, combining quantitative expertise with a solid engineering background.

CAREER TRAJECTORY



CAUSES CONTRIBUTED



1981 Batch Silver Reunion -
Centre for Innovation



1981 Batch Coral Reunion Project -
Modernization of CFI



1981 Batch Ruby Reunion
E-mobility Buses

1981 BATCH SILVER REUNION – CENTRE FOR INNOVATION (CFI)

Centre for Innovation (CFI) was seeded in 2008 by the Class of 1981 and is supported by the Classes of 1991, 1990, and the Jamuna Hostel inmates of the 1991 Batch. The center will help students translate their innovative ideas into working prototypes.

CFI Teams that Participate in Competitions

1. Team Avishkar:



“Developing technologies for the 5th mode of transportation”

To realize the dream of the Indian Hyperloop, the team is working on technologies like Hyperloop infrastructure, pod, magnetic propulsion, and levitation, with the scalability of systems as the primary objective.

Achievements:

- The latest pod, Avishkar 5.0, built during the pandemic through relentless effort, emerged in the Global Top 5 in three categories – Electrical Subsystem, Traction Subsystem and the Complete Pod Category in the European Hyperloop Week 2022.
- Competed virtually in European Hyperloop Week 2021 and won the ‘Most Scalable Pod Design’ award by Zeleros Hyperloop.
- The only Asian team at the SpaceX Hyperloop Pod Competition 2019 final.



2. Team Anveshak

Since its inception in early 2016, the team brings together a set of highly dedicated & skilled students working on mechanical design, system architecture & control, outreach & business relations.



Achievements:

- Bagged 6th position in an International Anatolian Rover Challenge 2022.
- 5th position in the Indian Rover Challenge 2020
- One among top 12 positions in University Rover Challenge 2019
- Champions of Indian Rover Challenge 2019
- Qualified in the European Rover Challenge 2016



3. Team Raftar

Every year, the team takes up the challenge of building a swift Formula Student race car. It aims to become a globally competitive team and promote the Formula Student culture in India.



Achievements:

- Bagged 2nd place in the Formula Student Electric Vehicle Concept Challenge -2021 conducted by Formula Bharat
- Heading out of the Pit and onto the racetrack IITM's first electric racecar took the world by storm at its first Formula Student competition, Formula Bharath in 2023



4. Team Abhiyaan

Team Abhiyaan is an enthusiastic group of multi-disciplinary students of IIT Madras, committed to building intelligent, robust, precise and safe, ground navigation systems. It provides a platform for creative ideas to be realized into ground-breaking product prototypes and revolutionary business models, with mentoring from the industry, faculty and alumni



Achievements:

- Developed and released an open-source ROS Software driver for the Septentrio Mosaic X5 GNSS module
- Project MACRo (Martian Autonomous Core-sampling Rover) in collaboration with ExTeM research group, IIT Madras



1981 BATCH CORAL REUNION PROJECT – MODERNISATION OF CFI

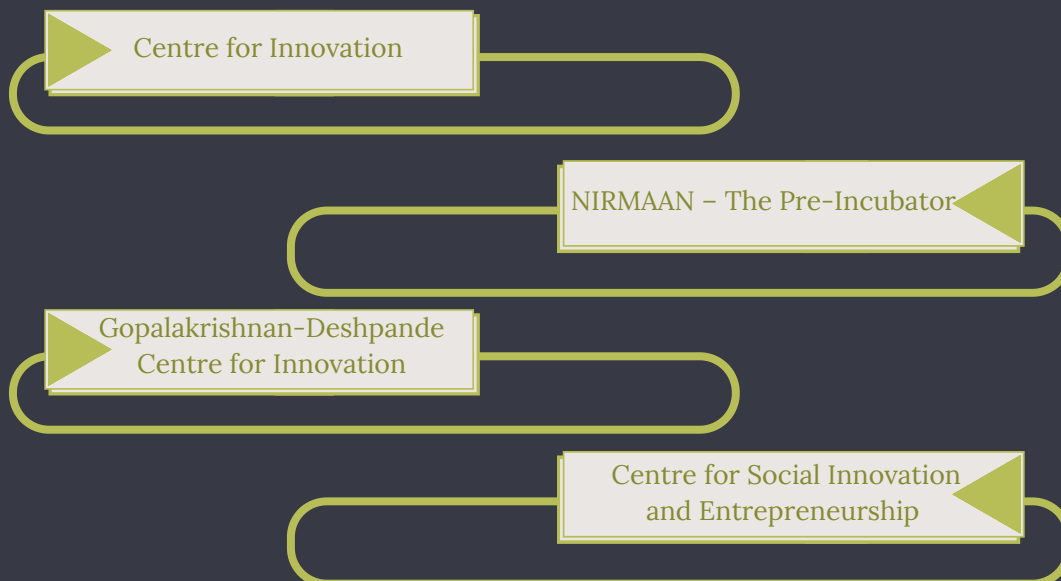
CFI is about 10 years old and needed modernization to keep pace with the evolving opportunities. The cause of the Modernization of CFI was supported by the classes of 1981, 1991, 1990 and the Jamuna Hostel inmates of the 1991 Batch.

This new building is called “*The Sudha and Shankar Innovation Hub*”. It is a veritable boon for the ingenious minds of IIT Madras- offering them a fertile space to harvest their ideas and bring them to life.

The modernized CFI in the new building was inaugurated by the Hon’ble. Vice President of India, Shri. Jagdeep Dhankar on February 28, 2023.



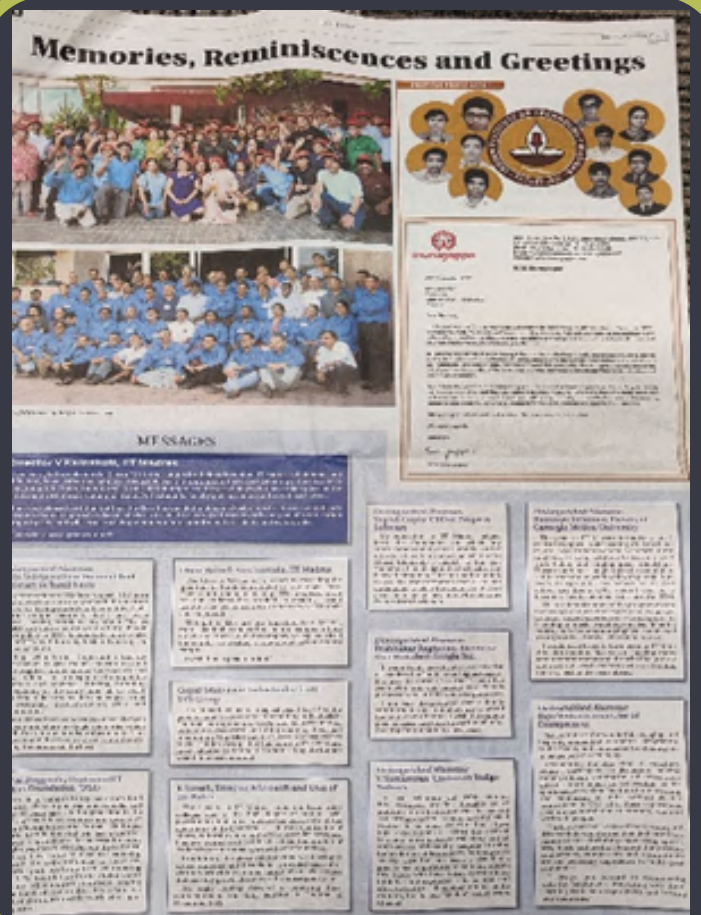
This innovation hub has been envisioned by its pioneers, to be the epicenter of all innovation and entrepreneurship and in turn, strategically hosts the following centers:



1981 BATCH CORAL REUNION PROJECT – MODERNISATION OF CFI



After 40 years, the graduating class of 1981 got back together for their belated ruby reunion on December 21, 2022. During this reunion, the batchmates unanimously agreed to contribute towards the incorporation of E-mobile buses at the IIT Madras campus.



Project update as on 09-08-2023:

- 4 E-carts have been purchased and are currently being used inside the campus. These e-carts have been immensely useful to the students and faculty alike to move around the campus. It has also been used by visitors to enjoy the scenic beauty of the campus.
- Call for the Tender process for E-bus is completed
- Tender opening will be held on August 18th, 2023
- Purchase Order (PO) will be placed by September 15th, 2023 after the discussion with the suppliers
- Delivery lead time will be 3 months from the PO date and the first E-bus is expected in the campus towards the end of December 2023

E-cart:



We are grateful to you & your family

Dr. Arvind Rajan



We express our heartfelt gratitude for your continued and generous support to IIT Madras throughout the years. We trust that you take great pride in your bond with IIT Madras and the unwavering dedication it has demonstrated towards academic and research excellence since the time of your association.

Your invaluable contributions, alongside the support of your family, have played a pivotal role in facilitating this remarkable growth. We are privileged to have you and your family walking with us along this journey. We extend our best wishes to you and your family. We thank you for your continued support to your alma mater.



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