



CELEBRATING THE GENEROSITY OF

Dr. Raghu Ramakrishnan



Impact of your Giving in 2023

Indian Institute of Technology Madras
Office of Alumni and Corporate Relations

Director's Message

Prof. V. Kamakoti
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!

Dean Alumni & Corporate Relation's Message

Prof. Mahesh Panchagnula



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 utilised. 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 endeavours.

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 !



**“Thank you for your donation.
Your generosity means
everything to us and to
the community we serve.”**

Dr. Raghu Ramakrishnan



Dr. Raghu Ramakrishnan completed his B.Tech in Electrical Engineering in the year 1983 from IIT Madras and his Ph.D. from The University of Texas at Austin in 1987. He is a Distinguished Alumnus Awardee from IIT Madras in the year 2007. He is the CTO for Data and a Technical Fellow in the Cloud and AI (C+AI) division at Microsoft.

With his early work influencing commercial query optimizers and the design of window functions in SQL:1999, Dr. Raghu Ramakrishnan's contributions have had a lasting impact on the field. During his tenure at Yahoo!, he led the research for the CORE project, which served as the foundation for a range of significant developments. Dr. Ramakrishnan's influential work continues to inspire advancements in technology as he remains dedicated to driving innovation in the field.

List of awards:

- Distinguished Alumnus Award
- ACM SIGKDD Innovations Award
- ACM SIGMOD Edward F. Codd Innovations Award
- ACM SIGMOD Contributions Award
- 10-year Test-of-Time awards for papers published at the ACM SIGMOD, ACM SOCC, ICDT, and VLDB conferences
- Packard Foundation Fellowship
- NSF Presidential Young Investigator Award.

CAREER TRAJECTORY



Professor
The University of Wisconsin
(1987 – 2009)



CTO and Founder
Quiq
(1999 – 2003)



Chief Scientist, Audience & Cloud Computing Staff
Yahoo
(2006 – 2010)



VP & Fellow
Yahoo
(2006 – 2012)



Chief Scientist, Search and Cloud Platforms
Yahoo
(2010 – 2012)



CTO Information Services
Microsoft
(2012 – 2014)



Head of Engineering, Big Data
Microsoft
(2013 – 2017)



Technical Fellow
Microsoft
(2012 – Present)



CTO for Data
Microsoft
(2015 – Present)



Member of the Board of Directors,
Dept of Computer Sciences
The University of Texas, Austin
(2017 – Present)



Member of the Board of Visitors,
Dept of Computer Sciences
The University of Wisconsin-Madison
(2018 – Present)



Dept of Computer Sciences
The University of Texas, Austin
(2017 – Present)



Member of the Board of Directors
One City Schools Foundation
(2021 – Present)

CAUSES CONTRIBUTED

**Rukmini Ramakrishnan
Merit Cum Means
Scholarship Endowment**

**Ramakrishnan Merit Cum
Means Scholarship
Endowment**

**1983 Batch Pearl Reunion
- Prof. M S Ananth
Endowment Fund**

MERIT CUM MEANS SCHOLARSHIP

The Merit-Cum-Means Scholarship fully supported the cost of tuition fees which was Rs. 90,000/- per annum for a student until 2015. Since 2016, the tuition fee has been revised to Rs.2 lakhs annually. The Govt. Merit-Cum- Means Scholarship has been revised to 2/3rd of Rs.2 lakhs (i.e. 1.33 Lakhs). This leaves a sum of Rs. 66,667/- to be borne by the student.

Eligibility Criteria for the Scholarship:

- Parental income should be between INR 1,00,000 – 5,00,000
- Degree – B.Tech / Dual Degree
- CGPA – above 5

V RAMAKRISHNAN MERIT-CUM-MEANS SCHOLARSHIP

Voice of the beneficiary:



Name : Jami Rakesh Kumar
Roll No : ME21B076
Degree : B.Tech Mechanical Engineering
CGPA Range : 7 to 8

Gratitude Note:

Receiving this scholarship motivates me to improve my CGPA, and helps me achieve my goals. My aim is to pursue M. Tech in Research and Development.

RUKMINI RAMAKRISHNAN MERIT-CUM-MEANS SCHOLARSHIP

Voice of the beneficiary:



Name : Manaswini Jella
Roll No : ME20B089
Degree : B.Tech Mechanical Engineering
CGPA Range : 9 to 10

Gratitude Note:

This Tuition fee Support helps me manage my Purchase of necessary Education Materials, Personal expenses, etc. Thereby Reducing the Financial Burden on my Parents. This Support System positively impacted my academic journey and gave me a sense of motivation and encouragement to be independent and work on our Selves.

Achievements:

One of the Personal achievements which I feel proud of is the way I think about problems. After Getting into IIT, I got a Chance to Learn and work with our Eminent Professors. This positively influences me to see the Problems in a new way and motivates me to work for Society.

1983 BATCH PEARL REUNION – PROF. M S ANANTH ENDOWMENT FUND

Prof. M. S. Ananth Endowment Fund was established to honor Prof. M. S. Ananth, who served as the Director of IIT Madras from 2001 to 2011. He was well-known for his contributions to science and teaching, as well as his tireless efforts to develop higher education and research in India.

The interest accrued from this endowment is used to support the following activities:

- To support socially relevant projects.
- To support the educational needs of the children of staff members of self-help organizations who work on the IITM campus.

Socially relevant projects:



Total no of projects accomplished

Snippets of the projects:

Project name: Construction and Demolition (C&D) Waste Management and the Role of the Informal Unorganized Sector in India: Case of New Delhi.

The objective of the project: Identifying early-stage demolition projects in different parts of the City and various stakeholders involved in the identified projects to understand their roles in an informal/formal C&D waste management system through interviews.



Prof. Nikhil Bugalia
Department of Civil Engineering

Result

Results indicate significant environmental and economic benefits contributed by the informal sectors as they engage in deconstruction, salvaging several materials otherwise considered waste, and adding value to the formal recycling process through their selective demolition practices.



Project name: Tracking Beehive Health Using IoT Technology.

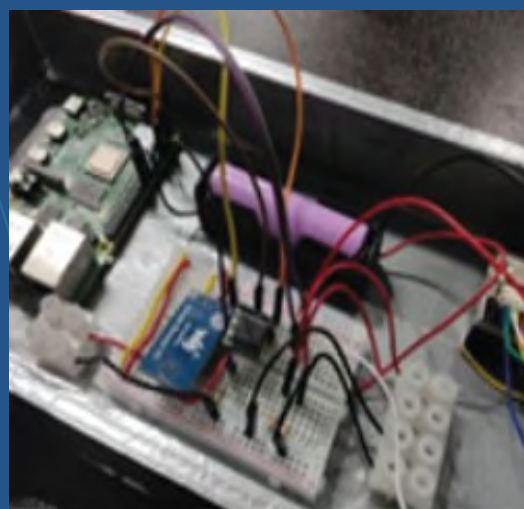
The objective of the project: The objective of the work is to build an IoT-based tracking system to monitor the health of a beehive.



Prof. Madhu Mutayam
Department of Computer Science Engineering

Result

It helps minimize manual inspection of the beehives so that beekeepers can handle a larger number of beehives at the same time, which can improve their income level.



Project name: Farmer-friendly, point-of-use, portable heavy metal sensors with cell phone interface: A new technical aid for the agricultural sector.

The objective of the project: Analyzing water quality and heavy metal presence in water samples collected from several temple tanks in Rameswaram, Tamil Nadu using the ICP-OES facility at SAIF- IIT Madras. the health of a beehive.



Prof. Sreeram K. Kalpathy

Department of Metallurgical and Materials Engineering

Result

The project is aimed at helping farmers and agricultural cooperatives to decide on soil quality, by measuring soil salinity and heavy metal presence detection, so that they can sow crops in the right location and maximize crop yields.



Project name: Community Screening of “Kasimedu fisherwomen” for cervical cancer using a self-sampling kit and an indigenous innovative detection device.

The objective of the project: This project is aimed at a community screening of cervical cancer in Kasimedu fisherwomen and the detection of an HR-HPV in these women by using an indigenous detection device (developed at IITM).



Prof. Rayala Suresh Kumar
Department of Biotechnology

Result

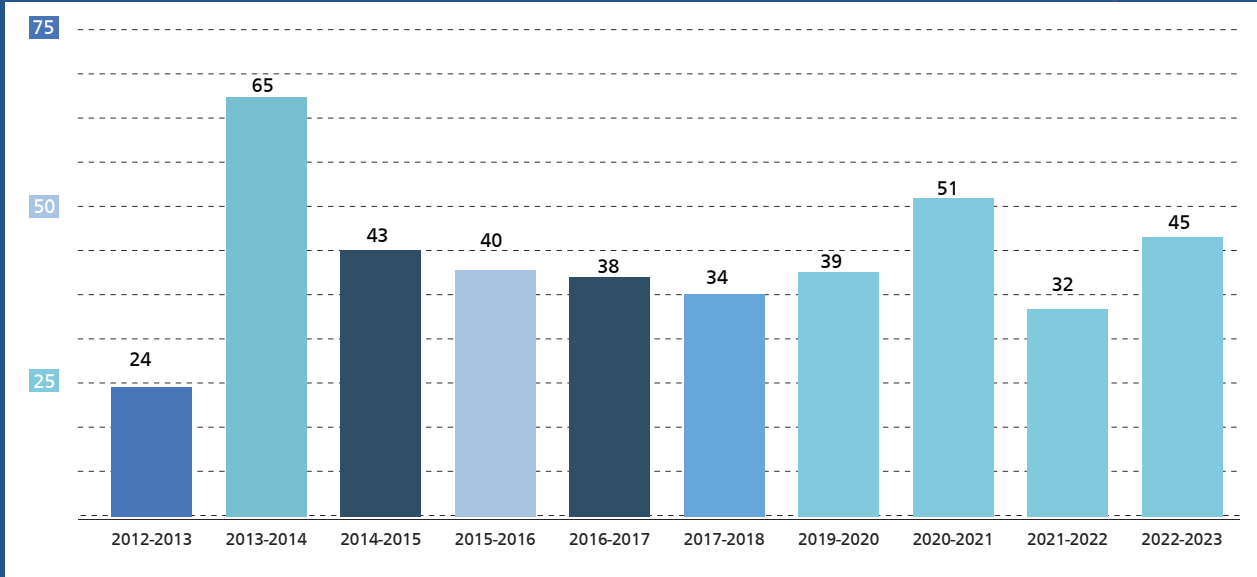
Fabrication of point of care device for detection of HR-HPV and continuous field work – community screening by enrolling more women into the cervical cancer screen.

	Disease	No Disease
Test Positive	2 (TP)	0 (FP)
Test Negative	0 (FN)	98(TN)
Total	2	98

II. Support to children of staff members of the self-help organization who work in IITM:

The below graph depicts the number of students who have reaped the benefits.

In 2022, 45 children of the IIT Madras campus Self-Help group staff have been given support to their tuition fees through this scheme.



Gratitude Note from some of the beneficiaries:

R Karthikeyan

Respected Mam
 I am Karthikeyan.R son of Abirani. You've gave a ready fee that is Help for my Studies. So I was able to concentrate with my studies perfectly. did also fees IS not pending so thanku for your help very much. and also I am very happy. and thanku for all support.
 Thank you by
 R. KARTHIKEYAN



Nitish and Sharmila

எனது தந்தை ருத்ரநிஷியன் அவர்களின் மகனாக நான் ய. சித்ரேஷின் VII படிப்பு வருகிறேன். அவருடைய மகன் சார்மிலா Y படிப்பு வருகிறார். நான் கல்வியை படிக்க உதவிக்கிறீர்கள். உங்களை மகிழ்ச்சியில் உடனடி உதவியைக் கொடுக்கிறீர்கள். உங்களை மகிழ்ச்சியில் உடனடி உதவியைக் கொடுக்கிறீர்கள்.
 கி.வினுஷியா
 Y. Sharmila

K. Dhanush Kumar

Good morning maam :
 I am K. Channamma's son.
 Thank you so much maam for giving us money. It has helped us.
 We will be always thankful to you maam
 We will never forget this.



K. Vinushiya

Respected madam
 My self K.Vinushiya I am studying 10th standard. My mother name K. Shanthi. I wish to thank you for the support and help my education. I wish to express my heartfelt gratitude for your help in financing my studies.





Memories to be cherished!



Electrical Sciences Block during 1981



Campus Amenities Centre

Convocation 1983

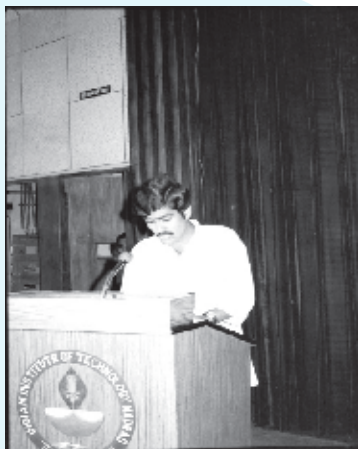


Graduands taking the pledge



President of India at IIT for convocation

Mardi Gras 1983



Sharukh Irani addressing the audience



Pandit Ravishankar Musical performance



WE ARE GRATEFUL TO YOU,

Dr. Raghu Ramakrishnan

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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<https://www.iitm.ac.in/>

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