

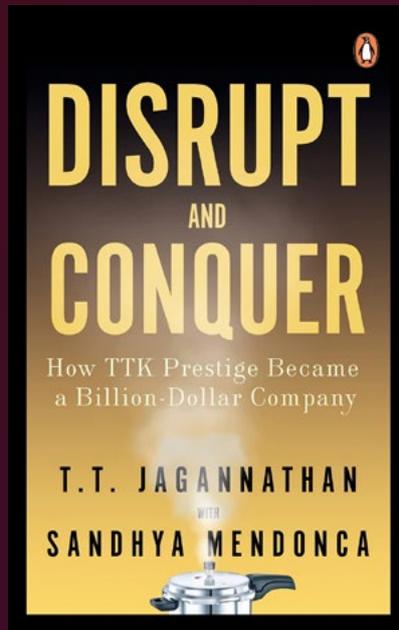


Indian Institute of Technology Madras
Office of Alumni and Corporate Relations

IMPACT OF YOUR GIVING

Shri T. T. Jagannathan &
Dr. Latha Jagannathan







Prof. Bhaskar Ramamurthi
Director, IIT Madras

IITs offer a fantastic environment to learn, not only from teachers but also from each other. Every IIT student must use the 4 or 5 years they spend here to realize their full potential and excel, academically and professionally. Our experience shows that alumni who use the opportunity provided here well, go on to flourish in ways we would not even have imagined when they were students.

We have an entire pre-incubation ecosystem on campus with a Centre for Innovation where students can walk in with an idea, and walk out with a product. This ecosystem provides cutting edge facilities along with funding support to help progress with an idea, propelling the research output of the Institute rapidly.

The Institute is steadfastly focused on fundamental and translational research given the development imperative of the country, and aims to work towards solutions to the pressing problems facing society.

IIT Madras is proud of its global alumni diaspora and well-wishers, second to none in terms of its accomplishments.

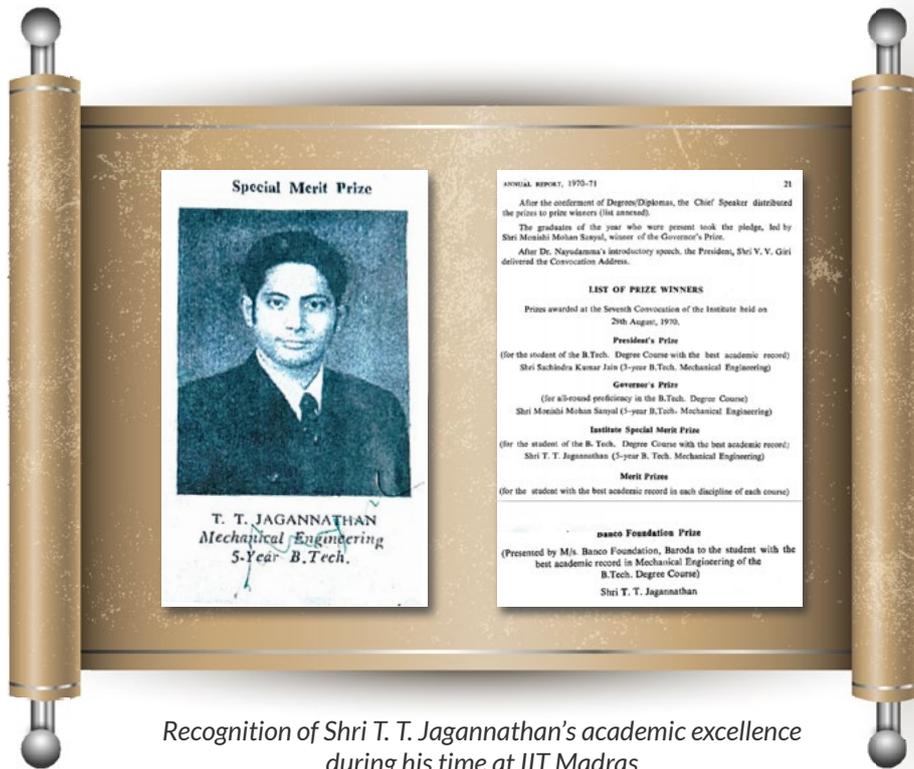


Prof. Mahesh Panchagnula
Dean, Alumni and Corporate Relations,
IIT Madras

Heartfelt thanks to Shri T. T. Jagannathan and Dr. Latha Jagannathan from IIT Madras.

Our aim to provide continued solutions to social problems on a global scale is realised through the sustained support of well-wishers such as yourself. We thank you for your contribution as we present a report of its impact. We hope to receive your help and support for our future endeavours to take IIT Madras to the global stage.

A Glimpse into the Awards Received by Shri T. T. Jagannathan



Recognition of Shri T. T. Jagannathan's academic excellence during his time at IIT Madras



Shri T. T. Jagannathan sharing an award-winning moment with his mother Smt. Padma, along with his wife Dr. Latha and father Shri T. T. Narasimhan



Receiving the Standard Star SME Award in 2011 from the then Honourable Prime Minister of India, Dr. Manmohan Singh



India Business Leader Award, 2019



Nanayam Vikatan Lifetime Achievement Award 2020



Prof. Mriganka Sur at the IC&SR Auditorium during the Machine Intelligence and Brain Research Workshop | 03 Jan 2020



The Prosthetic Knee and the Arise Wheelchair produced by the TTK Centre for Rehabilitation Research and Device Development



Participants of the Singapore-India Hackathon outside the IC&SR Auditorium | Sep 2019

IC&SR Auditorium Naming Rights Endowment

The Industrial Consultancy and Sponsored Research (IC&SR) Auditorium Naming Rights Endowment supported the following:

- **IC & SR Auditorium Renovation and Maintenance**
- **TTK Centre for R2D2 Activities**

IC&SR Auditorium

The IC&SR Auditorium is an iconic space, home to the high-profile events that embody the spirit of IIT Madras. It is the most sought-after venue for hosting lectures, workshops, conferences, symposia, and reunions. Its ambience is reflective of the excellence of the Institute. Over the years, the Auditorium has witnessed a number of historical events such as Alumni Days and Reunion Days, which left the audience with an incredible experience. It has also hosted deep-tech research events such as the Centre for Computational Brain Research

Workshop, the 3rd International Conference on Advances in Robotics, the International Conference on Mechanical Power Transmission, and the 3rd PAN IIT Biotech Conference. This state-of-the-art auditorium is fully equipped with advanced technologies, and received much accolade and appreciation for the sophisticated aura it created during the Singapore Hackathon as well as during the visit of renowned dignitaries such as Prof. Richard M. Karp.



Events at the IC&SR Auditorium: the Prof. Richard M. Karp Chair Launch & Lecture; and Prof. Anand Raghunathan and Prof. Partha Mitra speaking at the CCBR Workshop.

The Transformation of the IC&SR Auditorium



TTK Centre for Rehabilitation Research and Device Development (R2D2)

The TTK Centre for Rehabilitation Research and Device Development (R2D2) is involved in research related to human movement, and the design and development of rehabilitation and assistive devices for people with movement impairments. Under the leadership of Prof. Sujatha Srinivasan (Department of Mechanical Engineering, IITM), the Centre engineers affordable products for rehabilitation needs in India and abroad. The Centre works closely with clinical specialists, NGOs, hospitals, and other experts, to field-test the designs, and foster a research environment. The assistive device designs are evaluated from biomechanical and functional standpoints. Using appropriate technology, scientific methods, and innovative translational

models, R2D2 aims to enable easy accessibility and affordability of assistive devices and rehabilitation resources.



Shri T. T. Jagannathan and Dr. Latha Jagannathan being felicitated by Prof. Bhaskar Ramamurthi during the 1970 Batch Golden Reunion | 19 Jan 2015

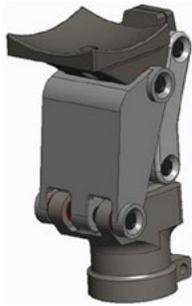
Products of the TTK Centre for R2D2



Arise is a manual wheelchair with inbuilt mechanisms that assists the user to stand without depending on others.



NeoMotion, a startup incubated at IIT Madras, has been developing personalised wheelchairs with outdoor mobility capabilities that are life-transformative for the elderly and individuals with special needs.



Prosthetic Knee for Transfemoral Prosthesis Polycentric Knee joint is indigenously developed to provide stability in movement for persons who underwent Transfemoral (above-knee) amputation, and is optimised to navigate uneven terrain.

Some Glimpses from Projects Under Development



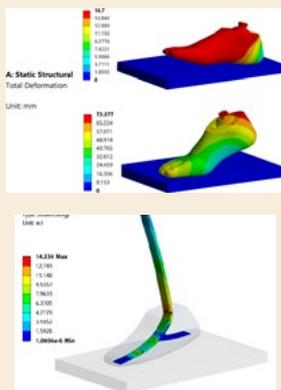
Body-Motion Wheelchair

This wheelchair is designed for people who do not have fine motor control, and works by means of an alternate mechanism that detects gross body motion.



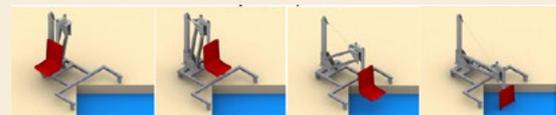
Saathi Walker

Saathi WalkChair is a device designed as a lifestyle product for children with Cerebral Palsy, aiding them to coordinate body movements in a purposeful way.



ProFoot

An indigenously-developed, high-performing, and affordable prosthetic foot for those who have undergone foot amputation.



Swimming Pool Lift

This assistive device provides individuals with locomotor impairments an opportunity for physical exercise while experiencing an immense sense of liberation.

[Click here](#) for more details on other projects in progress.

Accolades Garnered by R2D2



The Arise Team from R2D2 was awarded Ananda Vikatan's Nambikkai Award for Innovation for developing the Standing Wheelchair | 24 Jan 2020



Aravind Nehrujee (Research scholar, IITM) was awarded the **NRDC - NATIONAL MERITORIOUS INVENTION AWARD – 2020** in the NRDC National Budding Innovators Award of the Year category for his research 'Plug-and-train Robot (PLUTO) for Hand Rehabilitation'.

Patents from R2D2

- Method and Apparatus for Measuring Spatiotemporal Parameters for Gait and Movement Analysis
Indian Patent No. 354473 | Granted on 31 Dec 2020
- Safe Clip-on Attachment to Convert Wheelchair into an Outdoor Vehicle
Indian Patent No. 352476 | Granted on 27 Nov 2020
- A Multi-Position Wheelchair
Co-inventor Harshal Chaudhari
Indian Patent No. 351385 | Granted on 11 Nov 2020
- Body Movement Based Training and Mobility Device
Indian Patent No. 350469 | Granted on 29 Oct 2020

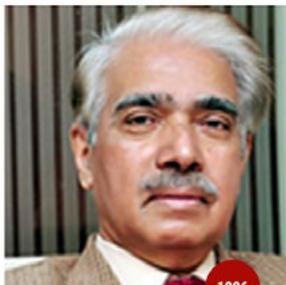


A demonstration of the solar-electric hybrid three-wheeler during the visit of German President Frank-Walter Steinmeier in March 2018. President Steinmeier found the startup initiatives very impressive.

DAA Endowment

The Interest accrued from this endowment will be used for the felicitation of distinguished alumni.

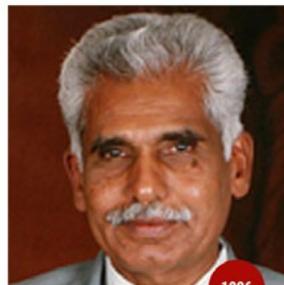
Some of our Distinguished Alumni Awardees



Dr. C G Krishnadas Nair
1964 - B.Tech - Metallurgical and
Material Engineering



Dr. N.R. Dave
1965 - B.Tech - Civil Engineering



Prof. R M Vasagam
1965 - M.Tech - Electrical
Engineering



Dr. Jalaiah Unnam
1970 - B.Tech - Metallurgical and
Material Engineering



Mr. Arvind Nithrakashyap
1995 - B.Tech - Computer Science



Mr. Chandran Ratnaswami
1970 - B.Tech - Civil Engineering



Dr. Girija Vaidyanathan
2011 - Ph.D - Humanities and
Social Sciences

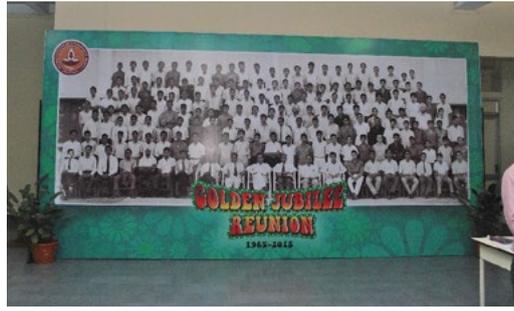


**Prof. Kumaran
Viswanathan**
1987 - B.Tech - Chemical
Engineering

TTK Merit-cum-Means Scholarship

Shri T. T. Jagannathan has contributed for two Merit-cum-Means Scholarship Endowments in 2021. The interest accrued from this endowment will be used to support scholarships for two students starting in 2022.

1970 Batch Golden Reunion



1970 Batch Golden Reunion | 27 Jan 2020

The 1970 batch which celebrated their golden reunion in January 2015 decided to make a significant contribution towards 'Prof. M. S. Ananth Endowment'. This endowment was established in 2011 in honour of Prof. M.S. Ananth, when he retired as the Director of IIT Madras.

The interest accrued from this endowment is being used to offer vital support to the following during the period 2020-21:

- **Staff Salary of Tech-kids**
- **Socially Relevant Projects**

Staff Salary of Tech-kids

Tech-kids is a daycare and activity centre located within IIT campus, for the children of faculty, staff and students of IIT Madras. A portion of the endowment interest accrued was utilised to pay staff salaries during these challenging pandemic times.

Socially Relevant Projects (SRP)

The Socially Relevant Projects program was started in 2003. There are 52 active SRPs at the moment. The interest accrued from the Prof. M S Ananth Endowment Fund supports 25 of these SRPs.

The details of some of the projects that benefited during 2019-21 are presented here.

Beneficiaries of SRP Projects (2019-21)



Prof. A. Kannan

Department of Chemical Engineering, IITM

Agro-Waste-Based Adsorbent Filter To Treat Textile Dyeing Effluents in Villages



Prof. Prabhu Rajagopal

Department of Mechanical Engineering, IITM

HomoSEP: Robot for Homogenization of Contents and Cleaning of Septic Tanks



Prof. Palaniappan Ramu

Department of Engineering Design, IITM

Energy Generation Using VAWT – Focus on Incorporating Modular Design and Low RPM Generation



Prof. Meghana Nasre

Department of Computer Science and Engineering, IITM

Kidney Exchange – Models and Algorithms



Prof. Srinivasa Chakravarthy

Department of Biotechnology, IITM

Publishing High-School Science Books in Regional Languages (Telugu and Tamil) and donating them to village school libraries.



Prof. Indumathi Nambi

Department of Civil Engineering, IITM

Low-Cost Accelerated Micro Composting Centres

Gallery



Prof. Prabhu Rajagopal and his student Divanshu Kumar displaying the septic tank-cleaning robot.



In the 'C minus 4' model, middle school students (grade 'C') are given specialised training and mentoring to equip them to teach students junior to them by four years. For example: Class VIII students are trained and mentored to teach academic subjects to class IV students in their school.

We are grateful to you, Shri T. T. Jagannathan & Dr. Latha Jagannathan!

Thank you for your contribution!

Thank you for your sustained generosity to IIT Madras over the years. Contributors such as yourself enable our students and faculty to dream big and work towards a better and brighter future. We hope you are proud of your ties with IIT Madras, and how the Institute has always remained steadfastly committed to academic and research excellence. You and your family have been instrumental in facilitating this significant growth through your generous support and mentoring.

Our efforts to nurture the culture of academic excellence that is the hallmark of IIT Madras, quality education, cutting-edge research, and unfettered creativity, shall relentlessly continue. We are privileged and humbled to have you and your family walking with us along this trail. We wish you and your family the best always in all walks of life!



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