



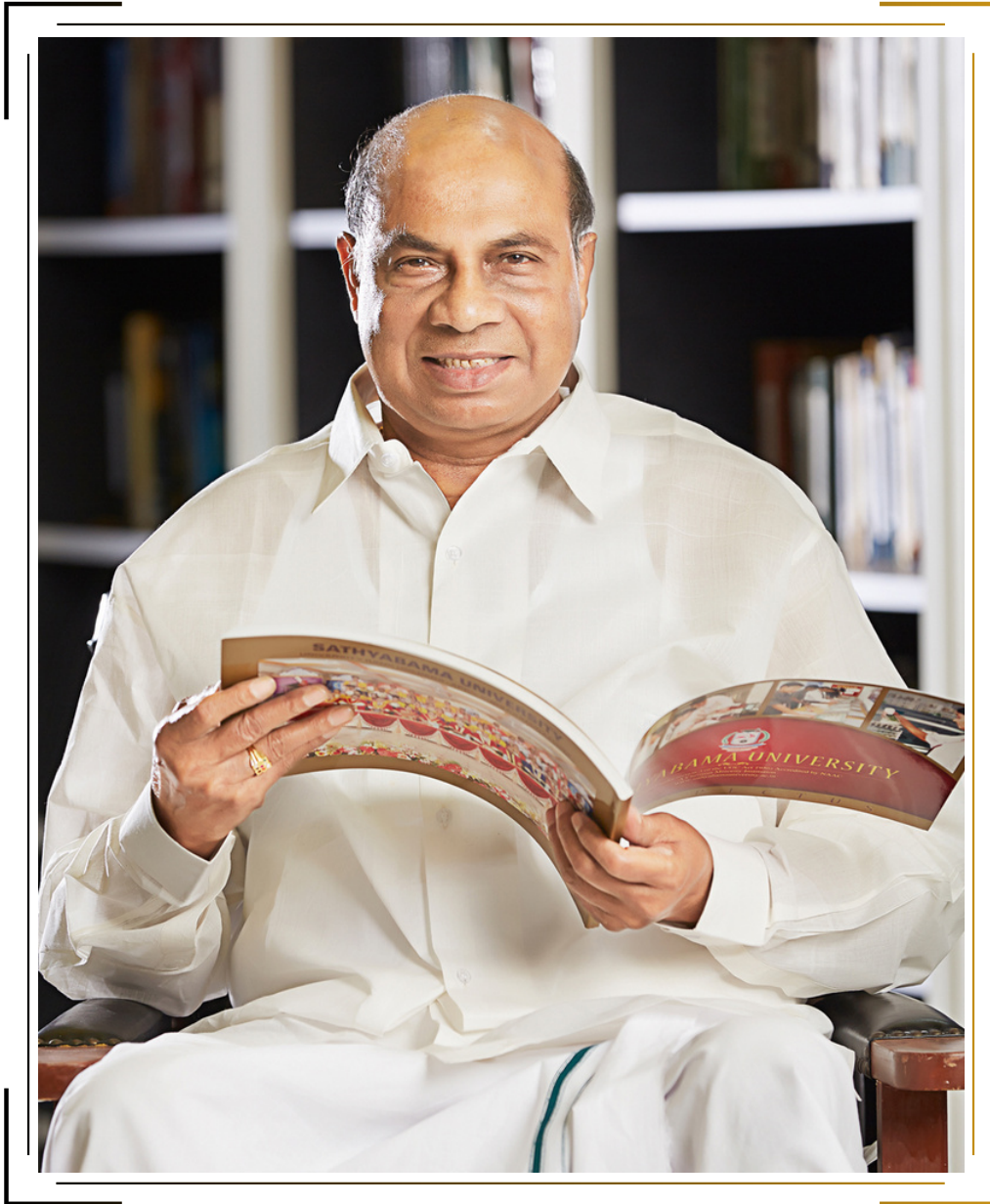
SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)



CONVOCATION REPORT 2022 - 2023

With the Blessings of



**Col. Dr. JEPPIAAR, M.A., B.L., Ph.D.
Founder Chancellor**

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)
Chennai, India

32nd Convocation Report

Hon'ble Chief Guest Shri T. G. Sitharam, Chairman, AICTE, Hon'ble Chancellor Dr. Mariazeena Johnson, Hon'ble President Dr. Marie Johnson, Beloved Vice Presidents Mr. Arul Selvan, Mrs. Maria Bernadette Tamilarasi, Ms. Maria Catherine Jayapriya, dignitaries on the diaz, Graduates, Faculty, Staff, Parents, and Media, Good Morning and welcome to the 32nd Convocation of Sathyabama Institute of Science and Technology. I deem it a great privilege to welcome each one of you to this Convocation ceremony.

We are very happy to have Shri T. G. Sitharam as the Chief Guest for the 32nd Convocation Ceremony. It is a great honour to have your good self on this auspicious occasion, sir.

In this Convocation Ceremony, 3504 under graduates, 9 Diploma in Pharmacy, 551 Post Graduate students and 102 Ph. D. Awardees are conferred their degrees.

I am happy to present the Annual Convocation Report 2023 before you, which is a reflection of the progress of our Institution for the last year.

As envisioned by our Founder Chancellor, Col. Dr. Jeppiaar, Sathyabama Institute of Science and Technology has developed into a world-class, multi-disciplinary university with excellence in Teaching and Research. With the blessings of our founder Chancellor, with the guidance of Madam Dr. Remibai Jeppiaar, and with the dynamic leadership of our Chancellor Dr. Mariazeena Johnson, President Dr. Marie Johnson, and the young and energetic Vice Presidents, Sathyabama is achieving excellence in every arena it forays into.

ACCREDITATION, RECOGNITION AND HONOURS

Sathyabama Institute of Science and Technology has been recognized as one of India's premier Academic and Research universities that offers multi-disciplinary academic programmes in various fields of Engineering, Science, Technology, Law, Dental Science, Pharmacy, Nursing, Humanities, Physiotherapy and Management.

I am very glad to mention that Sathyabama is accredited with the highest NAAC grade, A++, with a score of 3.73 by the National Assessment and Accreditation Council in the third cycle of accreditation. 10 undergraduate Engineering programmes and one postgraduate programme in Business Administration are accredited by the National Board of Accreditation (NBA).

Sathyabama has always been in the league of top universities. According to the NIRF (National Institutional Ranking Framework) 2023, Sathyabama is placed in the 51st position among the universities in India and has been ranked one of the top 100 universities in India for eight consecutive years. In the NIRF Innovation Rankings 2023, the Institution is placed in the band 51–100 among all the Institutions in India.

We are ranked in the 1001–1200 band in the QS World University Rankings 2024 and we are proud to mention that Sathyabama is one of the 45 Indian Institutions ranked by QS World Rankings 2024. According to the QS Asia University Rankings for 2023 we are ranked in the 301-350 position and in the 65th position in Southern Asia. We are also conferred a five-star rating by QS Stars.

For the year 2023, Our Institution has been ranked in a good position in the Times Higher Education (THE) World University Rankings, THE Asia University Rankings, THE Young University Rankings, THE Emerging Economies University Rankings, and THE Subject Rankings for the subjects Engineering and Technology, Physical Sciences, Life Sciences and Computer Science. Also, we have participated in the Times Higher Education Impact Rankings, which rank universities across the world based on their contribution to the UN's

Sustainable Development Goals. For the year 2023 our Institution is placed in a very good position for all the seven SDGs we have applied for.

CURRICULUM DESIGN

A major curriculum revision exercise has been initiated in the last academic year. In line with the National Education Policy, Academic Regulations 2023 is designed facilitating Learner centric experience for the students. The four verticals namely knowledge, Skill, Self-development and Learning to learn are considered while designing the curriculum. The curriculum is designed to facilitate multi-disciplinary learning, experiential learning, participative learning and Problem-solving ability to the students through innovative teaching learning pedagogies.

Our new academic regulations provide credits for national and international accomplishments, startup activities, Community engagements, Skill enhancement trainings, and value addition through co-curricular and extra-curricular activities.

The regulations also facilitate twinning programmes and dual degree programmes with renowned international universities.

Conforming with NEP and UGC National Credit framework, Four Year Under Graduate Programme is offered for Science and Humanities programmes. Multiple Exit option is facilitated for BSC/BA/BCOM programmes. UG degree will be conferred for exit after 3 years, UG degree with honors will be conferred for exit after 4 years and integrated PG degree will be conferred for exit after 5 years. Honors and Minors degree are introduced for all Programmes.

The Institution has introduced entrepreneurship courses for all students in association with National Entrepreneurship Network -Wadhvani foundation and industry specific elective in association with Service Now Inc.

We have introduced 6 new degree programs in this academic year. Apart from the approval of five online degree programs ,UGC has given the Approval to start 5 Online

and Distance Learning(ODL) Programmes for MBA, M. A (English), B. Com, M.Sc. (Mathematics) and BBA this year.

As we are the member institution of EDCIL, through the Study in India portal of Ministry of Education, we are getting students from other developing countries for both UG and PG programs.

RESEARCH AND DEVELOPMENT

- With 157 ongoing projects, the Institution has acquired 45 New projects worth 21.7 crores this year
- 2 students and one faculty from the Department of Information Technology have received the IASc-INSA-NASI fellowship through the Indian Academy of Sciences
- Our faculty members and scientist have been awarded fellowships and grants such as the Erasmus Plus grant, TWAS /HPSR Fellowship, HSTP Fellowship, ICMR DHR, DST-OVDF Fellowship, TARE fellowship, European Research Council / EPSRC Grant, Takeda Science Foundation Fellowship, Global Doc Mobility Fellowship & HRDC PDF, Korea Research Fellowship etc.
- Five of our Faculty were recognized as the Top 2% Most Influential Scientists in 2023 by Stanford University Survey
- We are happy to inform that our Scientist from the Centre for Nanoscience and Nanotechnology, has been selected under the Marie Skłodowska-Curie Actions, Global Neutron Scientists (GNeuS COFUND programme) at Forschungszentrum Jülich Research Institute, Germany
- Our scientist from the Centre for Drug Discovery and Development got selected to participate in the Indian Arctic Expedition 2023 organized by the National Centre for Polar and Ocean Research, Ministry of Earth Science for exploring Arctic bacterial diversity. He is the only Microbiologist representing the State of Tamil Nadu in the 2023 Arctic expedition
- The Centre for waste management is involved in the production of biogas from food waste, and waste to energy and conducting green and environmental audits thereby contributing to earn remarkable Carbon Credits

- Faculty members and Scientists have delivered keynote addresses and special addresses at national and international conferences organized by Universities worldwide
- One of our Scientists from the Centre for Ocean Research has completed his Post-Doctoral Studies at National Institute for Materials Science (NIMS), Japan this year
- A faculty from the Department of Computer Science has been awarded Post-Doctoral Fellowship by UNIFACVEST University, South America
- Scientists from the Centre for Remote Sensing and Geoinformatics have received an International award from International Centre for Theoretical Physics, Italy for their contribution to Laser remote sensing
- The Regeneration and Stem Cell Biology Lab of the Centre for Molecular and Nanomedical sciences has developed a serum-free, cost-effective cell culture medium, derived from earthworm coelomic fluid, for cell culture applications. Recently, the scientists at the Centre for Molecular and Nanomedical sciences have provided scientific molecular evidence for traditional medicines used in southern India, specifically "Marunthu Kulambu" for postpartum women funded by DST (SHRI)
- Our Scientific team at the Centre for climate change studies discovered a new **soft coral *Dendronephthya johnsonii*** from Covelong, Chennai, India which is reported new to the World. The species name is in honor of our Chancellor Dr. Mariazeena Johnson, and President Dr. Marie Johnson, for being the epitome of excellence in the various domains of academics and research. The same Scientific team has discovered another **new species: freshwater shrimp *Macrobrachium irwini***, from the Western Ghats. The species was named to honor famous Australian Zookeeper Steve Irwin
- Cryosphere Microbial research, Translational Immunology and Vaccine research are the recent initiatives by the Centre for Drug Discovery and Development
- We are glad to mention that the School of Nursing in collaboration with HSTP is undertaking a health policy project – Developing Competency Assessment Framework for Community Health Officers for the Government of Odisha
- National Skill Development Corporation(NSDC) of the Ministry of Skill Development and Entrepreneurship (MSDE) has sanctioned the Skill Development program for the Department of Electrical and Electronics Engineering under PMKVY 4.0, Pradhan Mantri Kaushal Vikas Yojana to train 240 targets

- We have received research scholars from developing countries under various schemes like DBT-TWAS, ISRF, DST-NAM S&T, CV Raman Fellowship and ASEAN fellowship to pursue part of their research at our Institution
- Unity Academic Alliance Programme is initiated to provide training on AR, VR and gaming technologies using UNITY Engine
- Our institution has enrolled for the ISRO Stars Programme through which students are given exposure to space technologies
- To update their skill and knowledge, many of our faculty members have participated in faculty development programmes organized by Universities and industries across India

INNOVATION ECOSYSTEM

- Sathyabama Technology Business Incubator established with the support of DST – NSTEDB, has been supported under the Startup India Seed Fund Scheme, DPIIT, Ministry of Commerce, Govt. of India with a funding of Rs. 5.25 Crores to support Startups
- Sathyabama TBI is recognized by Tamil Nadu Startup Innovation Mission (Startup TN) and sponsored the visit to Israel to study the Innovation Ecosystem of Israel.
- The Centre for Innovation and Technology Transfer facilitated getting IVP (Innovation Voucher Programme) fund from the Entrepreneurship Development Innovation Institute, Tamil Nadu for 8 startups
- 9 products have received financial support for patenting under the Kalam Program for IP Literacy and Awareness (KAPILA) scheme of AICTE
- To enhance the Innovation Ecosystem, Sathyabama Innovation Council is established as a Section 8 company under the Companies Act, 2013, which has proven to be a launchpad for 34 promising startups, driving budding entrepreneurs on their journey to success

PUBLICATIONS AND PATENTS

- Our Institution's performance in terms of research publications is excellent. 12793 research papers are indexed in Scopus with a H index of 92 and 6204 research papers are indexed in Web of Science with a H index of 81
- More than 1600 Joint Publications are made as the outcome of joint research with International Research Organizations and Universities
- The Institution had around 300 publications with a high impact factor this year
- This year, the credit of publication with the highest impact factor in the Institution goes to the Centre for Drug Discovery and Development for the publication in Nucleic Acid Research with 19 Impact Factor and Nature Communications with 17 Impact Factor
- Our Institution has filed 207 patents this year. We were granted 7 product patents, 26 design patents, 21 German patents and 4 Australian patents
- Many of our faculty members and scientists have published books and monographs on various titles, to mention few unique book publications, the Centre for Climate Change Studies has published a book titled "Introduction to Sea Shells of Rameswaram" where more than 120 species of sea shells have been portrayed. The same Centre has come out with another book titled "Field identification Manual for the Coastal and Marine Species of Covelong, Chennai", which displays more than 300 species of fishes, invertebrates and reptiles and is the first-of-its-kind field manual for the Chennai coast, benefitting the researchers working in the field of marine biology. Also a Scientist from the Centre for Nanoscience and Nanotechnology has written a book in Tamil "Indhiya Anuskathiyin Ezhuchi Varalaru"

INFRASTRUCTURE AND FACILITIES ESTABLISHED

- A new Academic Block named St. Paul's Block was inaugurated exclusively for the Department of Computer Science Engineering with 63 smart classrooms, 4 computer laboratories with 750 workstations and 141 faculty cabins
- An Electric Vehicle Lab was established in the Department of Electrical and Electronics Engineering
- Video Editing, Photography and Audio sound studios were established at the Department of Visual Communication

- Advanced Geoinformatics Lab was established in the Centre for Remote Sensing and Geoinformatics
- Advanced Geo-Chemical Laboratory has been established at the Centre for Earth and Atmospheric Sciences equipped with Atomic Absorption Spectrophotometer (AAS), Ion Chromatograph (IC) and Petrological Microscope to improve the geological and environmental research, testing, and monitoring
- Center for Ocean Research has established the Sathyabama Ocean Research Field Station at Jeppiaar Fishing Harbour, Muttom, Kanyakumari District to extend the research objectives of the Earth Science and Technology Cell funded by the Ministry of Earth Sciences
- Center for Ocean Research has established the state of art Halophytes Micropropagation Laboratory with the support of Science and Engineering Research Board, for the conservation of seagrasses, seaweeds and mangroves to mitigate climate change adaptation challenges
- Center for Ocean Research has established the Advanced Steel Research Facility in association with the Ministry of Steel for the sustainable use of materials for societal benefit
- A heavy metal detecting Atomic Absorption Spectrophotometer is established at the Centre for Waste Management to cater to the effluent standards as per the Pollution Control Board Regulatory
- A 50L capacity photo bioreactor has been commissioned in the Centre for Waste Management for the cultivation of microalgae for energy harvest and effluent remediation
- The School of Computing has set up Design Thinking Lab, Machine Vision Lab and Web 3 Lab to train the students on the cutting edge technologies
- The Department of Electronics and Communication Engineering has established a Centre of Excellence in AI and Embedded Systems, through which solutions to various industry use cases like LIDAR-based autonomous navigation system, AI-based edge computing systems are provided
- The Centre for Molecular and Nanomedical Sciences with the collaboration of Nebraska Medical Center, USA, and RIKEN Brain Science Institute, Japan, is

involved in discovering anticancer drugs from Marine sponges, the richest source of anticancer active compounds available in the marine ecosystems

FACULTY APPRECIATION AND RECOGNITION

- 175 faculty members have been appreciated with cash awards worth 70 lakhs rupees and a certificate of appreciation for publication in Journals with high impact factor
- Institution provided a seed fund worth 1.5 crore rupees for the deserving research and innovation proposals submitted by the faculty members
- Many of our faculty members have presented research papers at national and international conferences and won best paper awards
- Our Dean, School of Nursing has been awarded the Best Nurse Administrator award by The Tamil Nadu Nurses & Midwives Council
- Three faculty members from the Department of Biotechnology have obtained their Domain certification from NPTEL

STUDENTS PROGRESSION

- The Centre for Academic Partnership and International Relations office facilitated both inbound and outbound exchange programmes, through which students pursued courses involving the transfer of credits
- 7 Students have been to the National University of Singapore(NUS), for an Internship. 5 students have undergone an internship at the University of Texas at Dallas (UTD), USA. 4 students have undergone the Semester Abroad Programme at University Malaysia Pahang (UMP), Malaysia. 2 students have undergone the Semester Abroad Programme at University Technology Mara (UiTM), Malaysia
- 1 student from the Department of English, studied one semester, under the Erasmus Plus student mobility programme, at Wszechnica Polska Academy of Applied Sciences in Warsaw, Poland, which was funded by the European Union
- 5 students from the Department of Visual Communication and 5 students from the School of Management Studies have undergone courses at STIKI Malang University, Indonesia in virtual mode

- 10 students from the School of Law have undergone Internship at Nottingham Trent University, London, UK
- Students from Daffodils International University, Bangladesh pursued one semester in the Department of Computer Science Engineering
- Many of our students enroll for higher studies at universities across the world. This year 909 students have enrolled for higher studies at various foreign Universities
- 30 students from the School of Nursing and 1 student from the School of Dental Sciences have received TATA Scholarship worth 25 lakhs
- 20 students from the School of Nursing have received the “Pen Kalvi Scholarship” from the Government of Tamil Nadu
- 4 students have received AICTE Pragati Scholarship worth Rs.2 lakhs
- The Centre for skill development has conducted 12 programmes on various fields and nearly 1200 students benefitted from the skill development programmes
- Institution has provided 100% Scholarship for 1038 meritorious students coming from economically weaker sections of the society
- All 39 student clubs of Sathyabama have conducted events and competitions for students that facilitate peer-to-peer learning. Our students have participated in different events organized by other Institutions and won various prizes
- Our students from the Department of Chemistry and the Department of CSE have received funding support from the Tamil Nadu State Council of Science and Technology, Chennai, for their projects, under the “Students Project Scheme 2022 -2023”

PARTNERSHIPS AND COLLABORATIVE ACTIVITIES

- We have partnerships with more than 150 Universities and Industrial organizations for research collaborations, faculty and student exchange, internship programs and training
- 57 MoUs were signed with international Universities and Industries in the last year
- Erasmus Plus agreements have been signed with Transilvania University of Brasov, Romania and Wszechnica Polska Academy of Applied Sciences in Warsaw, Poland, Powislanski University, Poland, Cukurova University, Turkey, Anadolu University,

Turkey, University of Craiova, Romania for executing funded student and staff mobility programmes

- Through staff mobility programmes, Sathyabama offers its faculty members the opportunity to work at partner universities around the world. Four faculty members from the School of Bio and Chemical Engineering visited MAHSA University, Malaysia on a faculty exchange programme this year
- Two faculty members from the School of Management Studies have visited Powislanski University in Kwidzyn Poland under KA107 Erasmus Plus Faculty Mobility Project funded by European Union
- Faculty members from the Department of Civil Engineering provide consultancy services to the Tamil Nadu Urban Finance and Infrastructure Development Corporation Ltd. They are involved in the appraisal of various infrastructure development projects of the State Government like bus stands, parks, roads, water bodies, storm water drains and culverts. Our State government has also nominated Sathyabama as a Quality monitoring institution to inspect various projects implemented by the local bodies
- Center for Ocean Research is representing the International Union for Conservation of Nature - Commission on Ecosystem Management (IUCN - CEM) as an expert group on aquaculture management and development

OUTREACH

- The Institution has adopted several schools and 6 villages. Awareness programmes on various prevailing social issues are being conducted periodically by our students
- Outreach programmes, awareness programmes, workshops and seminars were organized by the departments commemorating various National/International Days of Importance
- The Public health wing of the School of Dental Sciences has organized 26 Dental Screening Camps and 10 Special Programmes for the general public in the last year.
- As a part of the community engagement activities, our students and staff have visited the villages adopted under the Unnat Bharath Abhiyan Scheme of the Government of India and helped in solving some of their day-to-day problems through technological interventions

PLACEMENTS

384 companies visited our campus, given 3094 Offers in the last academic year and 91.62 % of students have secured Job offers through our Campus Recruitment Program with an average package of 5.40lakhs per annum. The highest package this year is 53 lakhs per annum. Companies including, Human Resourcia, Cognizant, Wipro, Capgemini, Amazon, Deloitte, CIBA, Ramco, JP Morgan Chase & Co, Bank of America, Cisco, Nokia, IBM, Hyundai, Hitachi, Seimens, Renault Nissan, Infosys, Verizon, Hexaware, HCL, HP, Hyundai, Jio, Vivo, TATA ELXSI, Oracle, Zifo R & D, E&Y, Godrej, Saint Gobain, and ACP Limited are some of our recruiters.

ALUMNI ENGAGENENT

An International Alumni Meet was organized in Dubai in which many of our alumni settled in UAE participated. The Alumni Meet provided a perfect opportunity for our alumni to reconnect and reminisce about their college days.

CONCLUSION

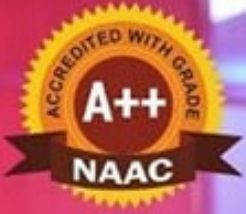
You are now graduating with specialist skills and knowledge in your field, but learning does not end here. Actual learning starts now and you will learn more life skills as you progress through different phases in life. Learning is a continuous process, keep your mind open to learn, unlearn and re-learn. As you step out into the world with your degrees and the wisdom gained from your experiences do remember the values that Sathyabama Institute of Science and Technology has instilled in you. Always be driven by integrity, empathy, and compassion, as you contribute to society and shape the future. Always be grateful to your parents and your teachers who have played a major role in grooming your personality. As you embark on your respective journeys, stay connected with your alma mater and cherish the memories you have made here.

Thank you. Jai hind.

We thank all our stakeholders

- *Parents*
- *Teachers*
- *Students*
- *Alumni*
- *Industries*
- *Government Organization*
- *Research Organizations*
- *Partner Universities*

for supporting us throughout our journey...



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(DEEMED TO BE UNIVERSITY)



45000+
Alumni Network
Worldwide



32
Indian States
& Union Territories
Represented by Students



15+
Countries
Represented
by Students



12
Schools



50+ UG Programmes
25+ PG Programmes
Ph.D Programmes



16000+
Publications



150+
International
Collaborations



60+
Countries
& Regions



400+
Faculty & Student
Exchange

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