NUS GRIP
(GRADUATE RESEARCH INNOVATION PROGRAMME)

DEEP TECH STARTUP SHOWCASE

LIFT-OFF DAY

Pitching Teams Booklet

Featuring Deep Tech Innovations and Technologies

NUS GRIP
GRADUATE RESEARCH INNOVATION PROGRAMME

NUS National University of Singapore | Enterprise

PROGRAMME SCHEDULE

2:00 PM

Onsite Registration
(By invitation only)

2:45 PM

Opening Remarks
Associate Professor Benjamin Tee
Vice President (Ecosystem Building)
NUS Enterprise

2:50 PM

Keynote Address
Dr. Tan Sian Wee
Senior Vice President (Innovation and Enterprise)
NUS Enterprise

3:00 PM

Team Pitch Sequence

1. tHEMEat
2. Lincore
3. Anoton Technologies
4. Genue
5. Hydgen
6. Sapiens
7. Empower
8. ThioSpark
9. StrideCal
10. B1Neuro
11. DataS
12. UrbanFlow
13. LiverGenix
14. ATM Sehat
15. Greenbix
16. Reflective AI

5:00 PM ONWARDS

16 Team Stations
1-1 Networking sessions with ALL teams

Networking Dinner

TEAM PITCHES

Anoton Technologies

World's 1st compact proton system providing high resolution 3D imaging

Nowadays, Integrated Circuits in electronic devices are required to be smaller and become increasingly difficult to manufacture, resulting in a high defect rate during IC production. IC producers have a problem identifying defects. Current Failure Analysis technologies fall short. Our patented world's most advanced system with high resolution 3D imaging is much better than current players and can solve a big problem in the IC industry. We have the world's best technology, great market demand, good potential customer base, strong team, our technology has vast commercial potential and is a promising investment opportunity worth considering.

Dr Pen San Tang
Managing Director

Crystal Lin
Executive Director

Dr Jeroen van Kan
Technical Advisor

Dr Minrui Zheng
Senior Researcher

Badri Narayanan Ravichandran
Research Associate

Dr Allan Street
Technical Advisory Board

Jerry Wang
Venture Architect

Lim Hwee Tong
Commercial Champion

Dr Lee Pui Mun
Technology Manager

Back to Teams

ATM Sehat

Health check as easy as balance check

Anjungan Telehealth Masyarakat Sehat (ATM Sehat) aims to increase health prevention in Indonesia. Especially for hypertension, which is the top disease. ATM Sehat is Automatic Telehealth Machine for Public Health. You can perform 14 health checks in ATM Sehat such as blood pressure, SPO2, BMI, body temperature, glucose, cholesterol, uric acid, hemoglobin, hematocrit, ketone, USG, ECG, and Spirometry. Using Internet of Medical Things (IOMT), all the data will be stored in ATM Sehat apps directly. This AI-Powered App will analyze the data and give health advice for our users.

Sigit Mohammad Nuzul
CEO

Cato Andre Gullichsen
Venture Architect

Vipra Guneta
Commercial Champion

Jonathan Tan
Technology Manager

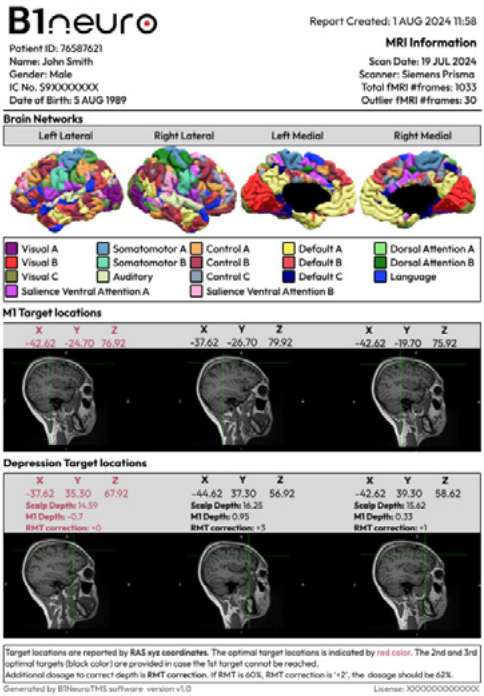
Back to Teams

B1neuro

B1Neuro

Advancing Precision Medicine with Neurotargeting

We provide a neurotargeting service that identifies target areas in the brain for neuromodulation therapies. We are currently able to identify targets to treat major depressive disorder using transcranial magnetic stimulation (TMS). The use of neurotargeting increases the chances of response to TMS from 30% to 80%.



Dr Leon Ooi
CEO

Dr Ruby Kong
CSO

Associate Professor Thomas Yeo
Technical Advisor

Dr Phern Chern Tor
Clinical Advisor

Jerry Wang
Venture Architect

Sherry Wang
Commercial Champion

Ang Hui Ying
Technology Manager

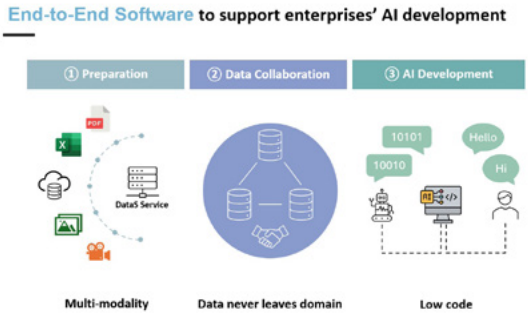
Back to Teams

DataS
Unleash Data Value

DataS

Empower Enterprises' AI Journey

AI has become essential to industries. However, many companies struggle with adoption of AI due to the substantial time and cost spent on data preparation, security issues in data collaboration, and lack of expertise when developing AI applications. DataS offers an end-to-end solution: efficient data cleaning and management, secure third-party data access without leaks, and low-code AI tools that reduce barriers for non-experts. With DataS, businesses can unlock AI's potential efficiently, securely, and affordably.



Dr Cong Yue
CEO

Dr Shaofeng Cai
CTO

Sam Tsui
Venture Architect

Amanda Chen
Commercial Champion

Yuan Ziying
Technology Manager

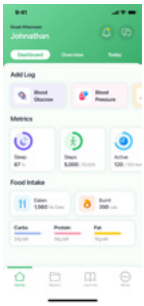
Back to Teams

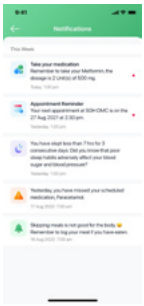
HealthGen

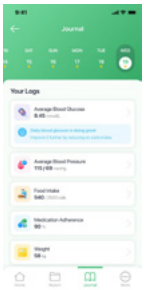
Empower

Empowering Health Through Precision

Empower addresses the gap in personalised, data-driven preventive care by combining AI, behavioral science, and clinical validation from SingHealth trials. By delivering personalised nudges, food logging, and seamless care team collaboration, Empower improves patient engagement, adherence, and health outcomes. As a dynamic health engine, Empower leverages data for patient activation and supports use cases including research trials, patient support programs, and primary care.







Zacchaeus Chok
Chief Executive Officer

Dr Hock Hai Teo
Chief Scientific Officer

Cato Andre Gullichsen
Venture Architect

Alex Tay
Commercial Champion

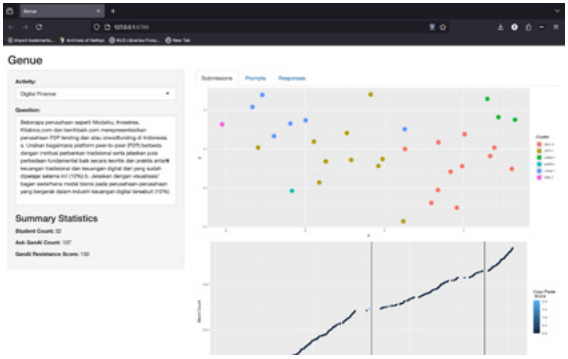
Chia Wounh Tih
Technology Manager

Back to Teams

Genue

GENERATIVE AI GUARDRAILS for safety and risk mitigation in Education

Genue is a Generative AI Risk and Mitigation EdTech startup, with Asia-based proprietary guardrails. These guardrail models create a Safe Learning Environment for students to interact with AI under the governance of teachers. In the long term, our models will help AI and EdTech developers govern Generative AI in the region. We are developing Asia's largest database on AI risk and harm; with a view to prevent AI mishaps in real-time.



Dr Raymond Chan
CEO

Angelia Teo
COO

Byan Sakura
Frontend Dev

Lina Budiarti
Business Development

John Kaniyil Phillip
Venture Architect

Lin ShuFen
Commercial Champion

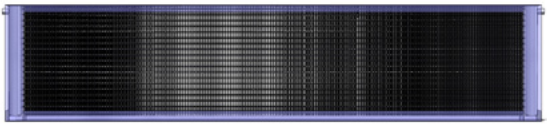
Jonathan Tan
Technology Manager

Back to Teams

Greenbix

Effortless Comfort, Endless Savings: Unleash the Power of Passive Cooling

Greenbix tackles the pressing issues of rising electricity costs and carbon taxes by revolutionising air conditioning efficiency. Our innovative passive displacement cooling system slashes energy consumption by 30%, addressing both economic and environmental concerns. By eliminating the need for fans, we not only reduce power usage but also enhance occupant comfort by eliminating drafts. Greenbix offers a win-win solution: substantial energy savings for businesses and a more pleasant environment for users, all while contributing to global sustainability efforts in the face of climate change.



Jin Wei Louis Chan
Chief Executive Officer

Dr Kai Xian Cheng
Chief Product Officer

Dr Shuai Guo
Chief Technical Officer

Prof Lee Poh Seng
Advisor

JD Lee
Venture Architect

Jerren Tan
Commercial Champion

Chua Wei Sun
Technology Manager

Back to Teams

HYDGEN

Hydgen

Building a future where low-cost green hydrogen fuels and powers the world.

HYDGEN is at the forefront of the energy transition, developing breakthrough technology for decentralized hydrogen production. With our patented catalyst, membrane, and stack design innovations, we're transforming the way green hydrogen is produced, making it a practical and scalable energy source. Our innovative electrolyzer systems and components offer unmatched efficiency and operational flexibility, a compact footprint, and reduced supply chain risk by avoiding the use of rare earth metals. By enabling on-site green hydrogen production, HYDGEN offers a solution that rivals grey hydrogen in total cost of ownership.

Dr Michael Gryseels
Executive Chairman

Dr Goutam Kumar Dalapati
Chief Technology Officer

Dr Krishna Kumar Manippady
Chief Operating Officer

Prof. Seeram Ramakrishna
Technology Advisor

Dr.Avishek Kumar
Business Advisor

Saw Biing Huei
Venture Architect

Glenn Davies
Commercial Champion

Chua Wei Sun
Technology Manager

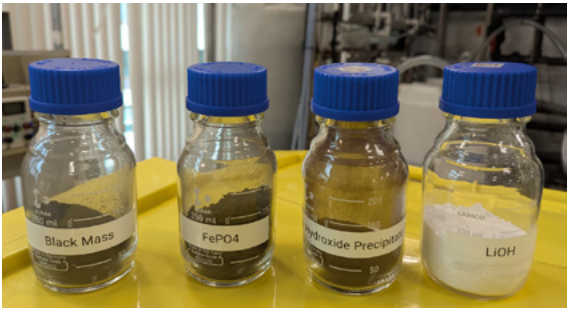
Back to Teams

Lincore

Lincore

Sustainable Critical Battery Materials Recovery

Access to critical battery materials such as Lithium, Nickel, Cobalt and Manganese is essential for our energy transition. Recovering these materials from spent batteries can reduce our reliance on extractive mining. Existing methods are often costly, produce significant waste, and cannot handle all Li-ion battery chemistries. Lincore has developed an Electro-metallurgical refining process to recover critical battery materials from end-of-life batteries and manufacturing scrap. With our closed-loop approach, we process all Li-ion battery chemistries waste in the same system and turn them into battery precursors while producing hydrogen as byproduct.



Saikiran Reddy
Chief Executive Officer

Xun Wang
Chief Technology Office

Prof Wang Qing
Co-Founder & Scientific Advisor

Debashish Pal
Venture Architect

Stefan Bahnmueller
Commercial Champion

Chia Mun Loong
Technology Manager

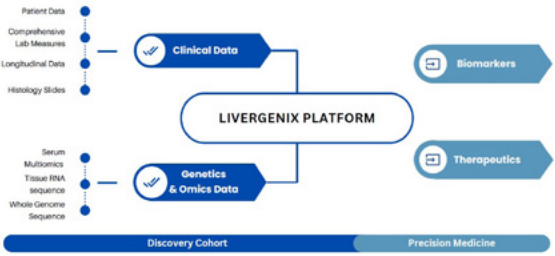
Back to Teams

LIVERGENIX

LiverGenix

Platform for Enabling Liver Precision Medicine

LIVERGENIX aims to establish a leading platform for commercial scientific discovery, focusing on transforming Metabolic Associated Steatohepatitis (MASH) treatment in Asia. Its foundation is an industry-leading databank leveraging novel, clinically relevant data not readily accessible to the industry. By collaborating with diverse academic institutions—often research-focused—LIVERGENIX bridges the gap between data-driven insights and practical applications, driving innovation in MASH treatment.



Dr Nicholas Syn
Chief Scientific Officer

JD Lee
Venture Architect

Ang Hui Ying
Technology Manager

Back to Teams

HERA

Reflective AI

Your always-on AI Agenet Ear buds

Reflective AI revolutionizes productivity for students and professionals by addressing the challenge of information overload and inefficient learning. Our innovative AI-powered Hera earpiece integrates seamlessly into daily life, offering a “Hear, Talk, and Record” experience. It transforms lectures and meetings into actionable summaries, facilitates engaging AI-driven discussions, and captures key moments with its smart recording case. Designed as a lightweight, single-ear device, Hera keeps users connected to the world while enhancing focus and comprehension. Reflective AI empowers users to work smarter, not harder.

Dr Yue Wang
CEO

Pete Kellock
Advisor

Roger Cheong
Venture Architect

Felix Lee
Commercial Champion

Chia Mun Loong
Technology Manager

Back to Teams

Sapiens

AI-driven Retail Media Technology

AI-driven Retail Media Technology Founded in Singapore in 2022 as KiwiAR and recently rebranded as RetailX, our company was incubated under NUS GRIP. We provide comprehensive solutions enabling retailers to build Retail Media Networks (RMNs) while helping agencies and brands to buy retail media advertisements across retailers. Our innovative products currently serve major retailers throughout Southeast Asia and power China's largest in-store retail media networks, revolutionizing the retail advertising landscape.

Bruce Yang
Co-Founder

Ivan Zhou
Co-Founder

Sam Tsui
Venture Architect

Sanchit Sanga
Commercial Champion

Yuan Ziying
Technology Manager

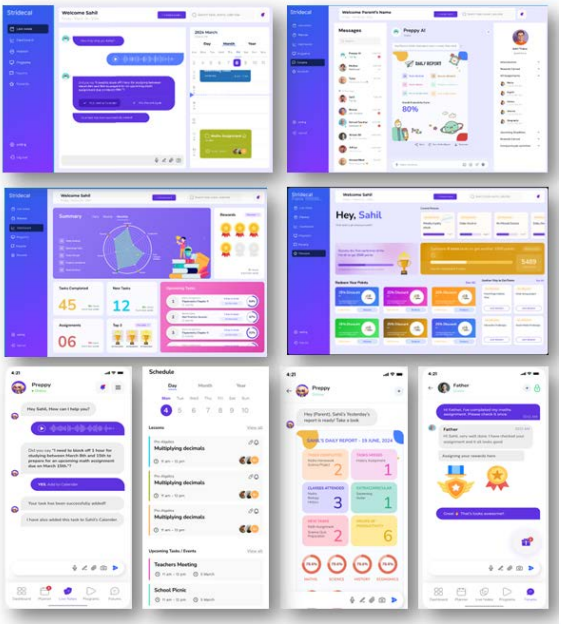
Back to Teams

StrideCal

StrideCal

Simplify, Organize, Achieve - Your Life Perfectly Planned!

StrideCal is an AI-powered personal organizer designed for students, featuring a familiar chat interface to capture schedules, thoughts, and project details effortlessly. It automates daily scheduling by integrating data from calendars, notes, and LMS systems, organizing diverse inputs to plan activities which balance academic, extracurricular, and personal growth. StrideCal provides actionable insights for better time management and addresses the limitations of existing apps with adaptive schedules, progress tracking, and user-personalized plans aligned with individuals' productivity cycles.
An NUS GRIP 11 project, StrideCal is set to launch in Singapore and India.



Back to Teams

Amit Thakur
Chief Technical Officer

Sumit Thakur
Director

Mohan Pothula
Singapore Director

Sahil Thakur
Marketing Director

Mohinder Thakur
India Delivery Head

Cato Andre Gullichsen
Venture Architect

Niloy Mukherjee
Commercial Champion

Dr Eyoh Chih Hong
Technology Manager

tHEMEat

Guilt-free Eats

The alternative meat industry faces two main hurdles, taste and cost. We provide the solution to these two problems - VEME® - an affordable, vegan and non-GMO Heme produced chemically from vegetables, bypassing the need for precision fermentation. Our proprietary method valorises "ugly" yet edible vegetables into VEME® that is added to alternative meats to replicate the look, cook, smell and taste of animal meats. As a low-cost functional ingredient, VEME® catalyses key flavour generation reactions during cooking, which is also applicable to a multitude of industrially relevant processes.

Dr Max Tham
Chief Executive Officer

Jia Yang Chia
Chief Technology Officer

Roshan Shahid
Chief Operating Officer

Prof Ang Wee Han
Academic Advisor

A/Prof David Leong Tai Wei
Academic Advisor

Dr Leong Lai Peng
Academic Advisor

Saw Biing Huei
Venture Architect

Barnabas Chan
Commercial Champion

Yong Yoke Ping
Technology Manager

Back to Teams

THIOSPARK

ThioSpark

Solid State Lithium Sulfur Batteries for Energy Density

Existing Li-ion batteries revolutionized the world, but they are bulky, heavy, a fire hazard, high-cost and toxic to the environment. THIOSPARK has developed a radical solution to these problems by developing novel solid state lithium sulfur rechargeable batteries. Our batteries offer 3x higher endurance, 30% less weight and 20% lower cost. This is due to our novel ceramic polymer electrolytes that are compatible with anode and cathode, enhance the life of the battery. The polymer ceramic electrolytes help minimize heat generation during charging and discharging cycles, thereby enhancing safety and longevity.

Dr Prasada Rao Rayavarapu
CEO

Dr Stefan Adams
Advisor

Dr Ramakrishna Seeram
Advisor

Dr Dipsikha Gangully
Scientist

Tham Alex
Advisor

Debashish Pal
Venture Architect

Stefan Bahnmueller
Commercial Champion

Chia Mun Loong
Technology Manager

Back to Teams

Urbanflow

AI-driven intelligence for sustainable urban and building design

Building projects face a critical challenge: over 90% experience cost and schedule overruns, while buildings account for 40% of global carbon emissions. UrbanFlow revolutionizes this through an AI-driven collaborative platform that transforms how sustainable cities are designed. By combining advanced AI analytics with physics-based simulations, we compress months of complex analysis into seconds, enabling real-time optimization across energy, carbon, cost and other key metrics. Working with leading AEC firms and government agencies, we're helping design teams create more sustainable, efficient cities while significantly reducing project timelines.

Dr Yu Qian Ang
Cofounder

Ryan Tan
Cofounder

Bryan Ong
Cofounder

Jerry Wang
Venture Architect

Andrew Loke
Commercial Champion

Eyoh Chih Hong
Technology Manager

Back to Teams

THE FLAGSHIP INNOVATION PROGRAMME

THE FLAGSHIP INNOVATION PROGRAMME

By NUS Enterprise enabling NUS postgraduate students and researchers to develop commercially viable and investible deep tech start-ups.

ABOUT NUS GRIP

Launched in October 2018, the NUS Graduate Research Innovation Programme (NUS GRIP) is NUS Enterprise's flagship innovation programme.

Based on our extensive experience working with deep technology, the programme will provide step-by-step guidance to NUS postgraduate students and researchers to cultivate deep tech entrepreneurs, to transform the university's world-class research into their own deep tech start-ups.

Twice a year, teams are selected from the best and brightest NUS researchers and postgraduate students to equip them with entrepreneurial skills and experience.

For the duration of one year, teams will undergoa transformation journey through a series of workshops, mentorships, industry linkages and incubation support, to develop commercially viable and investible deep tech start-ups. NUS will invest up to S$100,000 in start-ups demonstrating high commercial potential to accelerate their growth.

Find out more at **nus.edu.sg/grip**

Connect with the teams **grip@nus.edu.sg**

NUS ENTERPRISE

NUS Enterprise, the entrepreneurial arm of the National University of Singapore (NUS), plays a pivotal role in advancing innovation and entrepreneurship at NUS and beyond. It actively promotes entrepreneurship and cultivates global mind-sets and talents through the synergies of experiential entrepreneurial education, active industry partnerships, holistic entrepreneurship support and catalytic entrepreneurship outreach. Its initiatives and global connections support a range of entrepreneurial journeys and foster ecosystem building in new markets. These initiatives augment and complement the University's academic programmes and act as a unique bridge to industry well beyond Singapore's shores.

nus.edu.sg/grip

linkedin.com/company/nusgrip

grip@nus.edu.sg

NUS GRIP
GRADUATE RESEARCH INNOVATION PROGRAMME

NUS National University of Singapore | Enterprise