

# Your Gateway to Immersive Research

A\*STAR Research  
Internship Award  
(ARIA)



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**Chloe Chah**  
ARIA Recipient, 2022



**Seow Ryan**  
ARIA Recipient, 2022



**Tee Xin Ying**  
ARIA Recipient, 2022



# Home Ground for the Best-in-Industry

**Science. It's at the heart of everything we do.** At the Agency for Science, Technology and Research (A\*STAR), we are focused on pushing boundaries to develop Singapore's scientific capabilities and ecosystem, as well as nurture the next generation of scientific leaders.

Home to a vibrant ecosystem, leverage A\*STAR's resources and support to turn your research into industry-ready solutions.

At A\*STAR Graduate Academy (A\*GA), we believe that diversity fuels innovation and interdisciplinary research. With an opportunity to study and conduct research at top universities in Singapore and abroad, be a part of a community of curious minds dedicated to overcoming the challenges of tomorrow's science and research landscape.



## At the Centre of the Science Ecosystem

Our scholars at over 17 A\*STAR research entities benefit from cross-disciplinary and multi-sectoral research opportunities, facilitating diverse career pathways in science, engineering, academia, technopreneurship, and industry. With access to state-of-the-art labs and collaboration with A\*STAR's global talent pool of over 4,000 professionals from over 60 countries, scholars leverage diverse perspectives and best practices in research and development.

Through extensive outreach programmes and collaborations with international institutions, the A\*STAR Graduate Academy (A\*GA) actively fosters a vibrant and inclusive community, offering invaluable global exposure.



## Mentorship with a Heart

The A\*STAR Research Internship Award (ARIA) programme offers an exceptional research experience coupled with personalised career guidance. Students will gain insights from knowledgeable researchers who serve as project supervisors and mentors throughout the internship.

Engage in deep discussions with your mentors about your aspirations, the diverse career paths available in STEM, scholarship opportunities, and professional training and development — all tailored towards your specific goals. From these discussions, be empowered with the support and resources to confidently navigate your future career in STEM.



# Shaping Our Scientific Landscape

A\*STAR is split into two research councils, each playing a pivotal role in driving Singapore's research.

## Biomedical Research Council (BMRC)

The Biomedical Research Council (BMRC) plays a dual role in Singapore's biomedical sciences landscape, driving economic impact and advancing healthcare outcomes. BMRC supports research initiatives across all Technology Readiness Levels (TRLs) with a strong emphasis on use-inspired research that can be translated to clinical applications for patient care.

## Science and Engineering Research Council (SERC)

The Science and Engineering Research Council (SERC) fosters innovation across various sectors including communications, materials, and computational sciences. SERC oversees multiple research entities and cutting-edge facilities, addressing global technological challenges and paving the way for future industries.



**Vernon Toh**  
ARIA Recipient, 2022



### A\*STAR RESEARCH INSTITUTES

- A\*STAR Infectious Disease Labs (ID Labs)
- A\*STAR Skin Research Labs (A\*SRL)
- Bioinformatics Institute (BII)
- Bioprocessing Technology Institute (BTI)
- Genome Institute of Singapore (GIS)
- Institute for Human Development and Potential (IHDP)
- Institute of Molecular & Cell Biology (IMCB)
- Singapore Immunology Network (SIgN)
- Singapore Institute of Food and Biotechnology Innovation (SIFBI)
- Advanced Remanufacturing and Technology Centre (ARTC)
- Institute of Sustainability for Chemicals, Energy and Environment (ISCE<sup>2</sup>)
- Institute of High Performance Computing (IHPC)
- Institute for Infocomm Research (I<sup>2</sup>R)
- Institute of Materials Research & Engineering (IMRE)
- Institute of Microelectronics (IME)
- National Metrology Centre (NMC)
- Singapore Institute of Manufacturing Technology (SIMTech)



# Eligibility & Application



Discover your passion in scientific research and sharpen your research skills with the **A\*STAR Research Internship Award (ARIA)**.

ARIA offers curated internship projects for immersive research experience. Work alongside experienced researchers, conduct experiments, and apply theoretical knowledge to real-world challenges, gaining insights into Singapore's future.



## Benefits

- Developmental support and career mentorship from experienced researchers.



## Eligibility

- Minimum internship duration is 16 weeks (during semester) or 12 weeks (during vacation), subject to the university's minimum internship duration requirements.
- Singaporean undergraduates ( $\geq 2^{\text{nd}}$  year) in Computing and Information Science, Engineering and Technology, Physical Sciences, or Biomedical/Life/Food Sciences.
- On track to obtain at least a 2<sup>nd</sup> Upper Class Honours degree or equivalent CGPA Grades (such as 4.0 out of 5.0).
- Have a strong interest in a research career.
- Have not previously been awarded an ARIA internship.

*Successful ARIA awardees will receive a monthly allowance ranging from S\$1600 to S\$2000.*





# Application Process

ARIA is also an opportunity for students who are looking to complete a credit-bearing internship. Applicants must meet the eligibility criteria set by their respective faculties/departments in the university.

## Apply Online

Applications are accepted through the autonomous university's internship portal or the ARIA webpage.

### Please prepare the following supporting documents for submission:

- Photocopy of your NRIC (front & back)
- Latest university academic transcript
- Official junior college/polytechnic academic transcript grades
- Most up-to-date resume

## ARIA Webpage

Singaporean undergraduates pursuing studies at local or overseas universities can view the list of available projects offered under ARIA and submit their applications at [for.edu.sg/aria](https://for.edu.sg/aria)

## Autonomous University Internship Portal

Singaporean local undergraduates can find project postings in their school internship portal under "ARIA/A\*STAR Research Internship Award." Alternatively, they can contact their faculty's internship coordinator or administrator.

## Interviews

Shortlisted applicants will be contacted for an e-interview and be notified of the outcome via email.

## Onboarding

Upon accepting the offer, successful applicants will begin the onboarding process.

They will receive an onboarding email with the internship letter and instructions from the research institutes.

### Tiviatis Sim

ARIA Recipient, 2021

A\*STAR Computing & Information Science Scholarship Recipient, 2023



# Hear From Our Awardee



**Meet Yue Shuiian, an ARIA awardee!**  
Find out how the award has helped her in her academic journey.

## What are your research interests?

My research interests revolve around food chemistry, focusing on the development of nutritious foods for improved health outcomes.

## What inspired you to pursue research in Food and Nutrition?

I have always been intrigued by the potential of manipulating the molecular structure of things, substances, or materials around us to better suit our needs. In recent years, more novel foods are being developed and consumed worldwide, especially in Singapore. This sparked my interest in applying chemistry to contribute to a more nutritious and self-sustaining food ecosystem.

## What have your experiences been like as an awardee, and what are the benefits of the ARIA?

My experience as an awardee has been enriching. During my internship at the Singapore Institute of Food and Biotechnology Innovation (SIFBI), I was introduced to essential laboratory techniques which facilitated exposure to recent relevant research. This has provided a smoother transition from undergraduate studies to my current career.

## What motivated you to apply for the National Science Scholarship (PhD) after ARIA?

The encouragement from my supervisor and friends from my research group whom I met through ARIA gave me the boost of motivation I needed to apply for the NSS (PhD). With the guidance of top scientists, I hope to pursue a meaningful career in research and broaden my perspectives beyond Singapore's research landscape.

## What are your career aspirations?

I wish to become a skilled scientist capable of generating innovative ideas for the discovery of new concepts or solutions, particularly to contribute to diet-based interventions for prevalent chronic diseases.

## When you're not researching, what hobbies do you enjoy in your spare time?

I enjoy spending time outdoors and exploring new places alongside friends and family.



# Meet Tan Yue Shuian

Research Officer, Singapore Institute  
of Food and Biotechnology Innovation (SIFBI)

A\*STAR Research Internship Award (ARIA) Recipient, 2022  
National Science Scholarship (PhD) Recipient, 2023



## 2017 – 2018 Pre-University

Graduated from National Junior College with H2 Biology, Chemistry, Mathematics, Economics (BCME), H3 Science Research.

## 2019 – 2023 Undergraduate

With research interests in food and nutrition, Yue Shuian applied for the A\*STAR Research Internship Award (ARIA) during her undergraduate studies. During ARIA, she worked on reviewing innovative techniques for developing slowly digestible foods at the Food Carbohydrate Programme in A\*STAR, SIFBI. She graduated with a Bachelor of Science in Food Science and Technology from the National University of Singapore (NUS) in 2023.

## 2023 – 2024 Current Role

She joined the Food Carbohydrate Programme in A\*STAR SIFBI again as a Research Officer, working on the characterisation of starch for food applications and the processing of fibre-rich side stream products.

## 2024 – 2026 PhD

Yue Shuian will be pursuing a Masters in Food Technology at the Wageningen University & Research before her PhD candidature.

Find out more about  
Tan Yue Shuian





## The A\*STAR Story

The Agency for Science, Technology and Research (A\*STAR) is Singapore's lead public sector R&D agency.

Through open innovation, we collaborate with our partners in both the public and private sectors to benefit the economy and society. As a Science and Technology Organisation, A\*STAR bridges the gap between academia and industry. Our research creates economic growth and jobs for Singapore, and enhances lives by improving societal outcomes in healthcare, urban living, and sustainability. A\*STAR plays a key role in nurturing scientific talent and leaders for the wider research community and industry. A\*STAR's R&D activities span biomedical sciences to physical sciences and engineering, with research entities primarily located in Biopolis and Fusionopolis.

**For ongoing news, visit [www.a-star.edu.sg](http://www.a-star.edu.sg).**

**Have a question?  
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