Agency for Science, Technology and Research
SINGAPORE

A*STAR International Awards

A*STAR's Mission and Vision

MISSION

We advance science and develop innovative technology to further economic growth and improve lives

VISION

A global leader in science, technology and open innovation

How A*STAR is organised

Research

- *Research Office (RO)*
- *Biomedical Research Council (BMRC)*
- *Science & Engineering Research Council (SERC)*
- *Research Institutes*
- *Horizontal Technology Coordinating Offices*

Industry Development and Commercialisation

- *Innovation & Enterprise (I&E)*

Talent Development

- *A*STAR Graduate Academy*

Headquarters

- *Corporate Group*

>6,000 Staff

>4,700 Researchers, Engineers, and Technical Support Staff

~37% from **>60** countries

A*STAR's Research Institutes

1970 - 2000	2000 - 2010	2010 - Present
National Metrology Centre (NMC)	Bio-informatics Institute (BII)	Advanced Remanufacturing and Technology Centre (ARTC)
Institute of Microelectronics (IME)	Genome Institute of Singapore (GIS)	A*STAR Skin Research Labs (A*SRL)
Singapore Institute of Manufacturing Technology (SIMTech)	Institute for Infocomm Research (I2R)	A*STAR Infectious Diseases (ID) Labs
Institute of Materials Research & Engineering (IMRE)	Singapore Institute for Clinical Sciences (SICS)	Singapore Institute for Food & Biotechnology Innovation (SIFBI)
Institute of High Performance Computing (IHPC)	Singapore Immunology Network (SIgN)	Institute of Sustainability for Chemicals, Energy and Environment (ISCE2)[1]
Institute of Molecular & Cell Biology (IMCB)		
Bioprocessing Technology Institute (BTI)		

8 SERC Research Institutes
9 BMRC Research Institutes

[1] ISCE[2] is a re-organisation of A*STAR's former Institute of Chemical and Engineering Sciences, which was established in the 2000s

CREATING GROWTH, ENHANCING LIVES

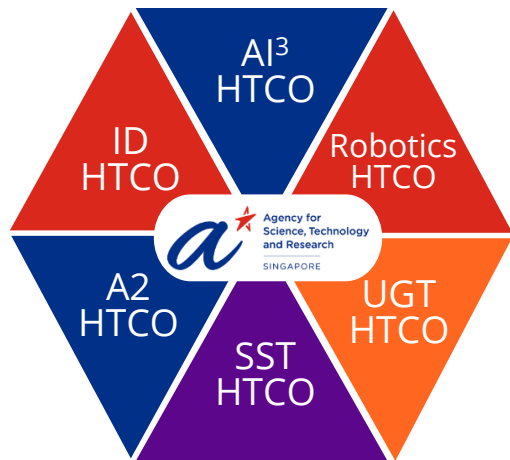# A*STAR Horizontal Technology Coordinating Offices (HTCOs)

Integrate multi-disciplinary capabilities across RIs to address cross-cutting national priorities.

Artificial Intelligence, Analytics & Informatics: Develop and deploy solutions to support Singapore's national **AI strategy** projects.

Infectious Diseases: Drive **translational ID research** in A*STAR to support Singapore's **epidemic preparedness** and deliver **impactful economic outcomes**

Robotics: Develop solutions for application in **industrial collaborative robots**, automation for **urban farming**, robotics for augmentation of **healthcare** workers and automation of **diagnostics**, **construction** robotics and **safety and security** robots

Agritech & Aquaculture: Advance capabilities and solutions to **grow the urban agritech and tropical aquaculture sector**

Urban and Green Technology: Focus on **CCUS**, **energy efficiency/ electrification**, **infrastructure**, **waste valorization** and **sustainable manufacturing technologies** to mitigate climate change effects

Social Sciences & Technology: Enhancing A*STAR's capabilities in **computational social & behavioural sciences** to address people-centric issues

AI³ HTCO · Robotics HTCO · ID HTCO · A2 HTCO · UGT HTCO · SST HTCO

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5

A*STAR Talent Strategy – 3 Strategic Thrusts

Strong core of Singaporean research talent,
complemented by **rich diversity** of international researchers

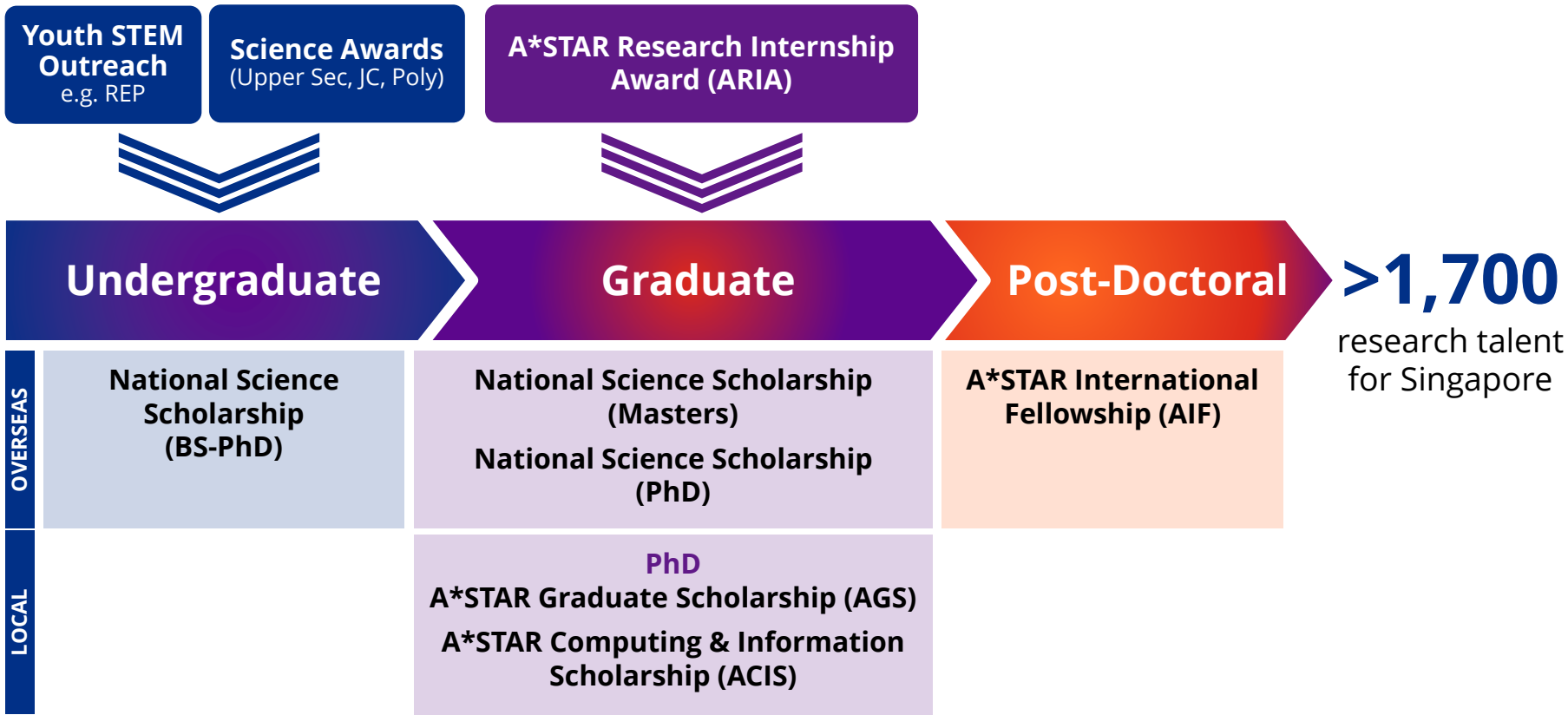| CREATE	INVEST	DEVELOP
STEM outreach to enthuse young to take up science and research as a career	Scholarship strategy to meet scientific talent needs	Post-PhD development of early career researchers and development of leaders

Pipeline Development Programmes

A*STAR Scholarships to build a strong Singaporean core

Youth STEM Outreach e.g. REP

Science Awards (Upper Sec, JC, Poly)

A*STAR Research Internship Award (ARIA)

	Undergraduate	Graduate	Post-Doctoral
OVERSEAS	National Science Scholarship (BS-PhD)	National Science Scholarship (Masters) / National Science Scholarship (PhD)	A*STAR International Fellowship (AIF)
LOCAL		**PhD** A*STAR Graduate Scholarship (AGS) / A*STAR Computing & Information Scholarship (ACIS)	

>1,700 research talent for Singapore

Strengthening International Linkages

SIPGA
Singapore International Pre-Graduate Award

2 to 6-month research attachments
at A*STAR Research Institutes for students in the later years of their **Bachelor's or Master's** programmes

ARAP
A*STAR Research Attachment Programme

1 to 2-year PhD research opportunities
at A*STAR Research Institutes under joint supervision of A*STAR scientists and faculty from overseas universities

SINGA
Singapore International Graduate Award

4-year PhD programme
at A*STAR Research Institutes, in partnership with Singapore universities:

NTU: Nanyang Technological University
NUS: National University of Singapore
SMU: Singapore Management University
SUTD: Singapore University of Technology & Design

ROBUST AND DIVERSE TALENT POOL

Since 2007, we have **>2,100** **international students attached to A*STAR**

Singapore International Pre-Graduate Award (SIPGA)

Eligibility

Open to 3rd & 4th Year undergraduate and Master's students from overseas universities

Attachment duration of 2 - 6 months at A*STAR Research Institutes

Obtained/ on track to a Second-Class Upper Honours (or equivalent) for Bachelor's studies

Application Closing Dates
15 February, 15 June, 15 October

www.a-star.edu.sg/SIPGA

Terms of Award

Monthly stipend of S$2,000

More than 850 SIPGA graduates from over 40 countries since 2008

A*STAR Research Attachment Programme (ARAP)

Facilitates collaboration between A*STAR and overseas universities

Supports **international PhD students** in overseas universities to undertake **1 - 2 years** of research at an A*STAR research institute under the **joint supervision** of an A*STAR researcher and faculty member of home university

PhD student remains matriculated at home university while physically based in an A*STAR RI throughout their attachment

PhD degree will be conferred by the home university

🌐 **www.a-star.edu.sg/ARAP**

More than 300 students from over 40 countries since 2009

A*STAR Research Attachment Programme (ARAP)

Eligibility

Open to all international students

Bachelor's degree with at least a **Second-Class (Upper) Honours**

Preferably prior **research experience**

Strong academic recommendations

Terms of Award

Monthly stipend of S$2,700

Monthly housing subsidy of S$600

One-time airfare grant of S$1,500

One-time settling-in allowance of S$1,000

One-time IT allowance of S$800

Medical insurance
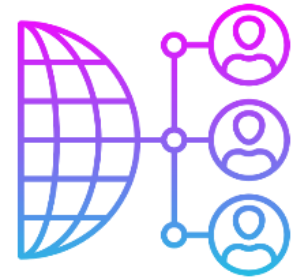
Conference allowance

Annual Nomination Cycles
15 May
30 November

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Nomination Process

Collaboration between A*STAR supervisor and university faculty on joint project

Draft Proposal prepared by A*STAR supervisor and university supervisor for joint project

Seek Approval on the proposed project from A*STAR RI and university (if applicable)

Recruit Students to apply for approved project

Shortlist Students for project by A*STAR supervisor and university faculty

Nominate Student for the ARAP award by completing nomination form and submitting to A*GA

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Singapore International Graduate Award (SINGA)

- ✓ **Bond-free 4-year PhD scholarship** for international BSc and MSc students in Singapore

- ✓ Pursue PhD in **science, engineering, biomedicine and social sciences related to machine learning** and **artificial intelligence**

- ✓ Perform cutting-edge research under distinguished researchers in **A*STAR, NTU, NUS, SUTD** or **SMU** with degree being conferred by the university

Singapore International Graduate Award (SINGA)

Eligibility

Open to all international students

Excellent academic performance

Strong passion for research

Proficient in written and spoken English

Strong academic recommendations

Terms of Award

Monthly stipend of S$2,200
S$2,700 after passing the Qualifying Examination

Full tuition fees coverage

One-time airfare grant of S$1,500

One-time settling-in allowance of S$1,000 and **one-time IT allowance** of S$1,500

Monthly housing subsidy of S$600

Medical insurance

Conference allowances

Application Deadlines

August intake : **1 December of preceding year**
January intake : **1 June of preceding year**

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THANK YOU

www.a-star.edu.sg