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

Numbers accurate as of March 2023
# A*STAR’s Research Institutes

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<tr>
<td>National Metrology Centre (NMC)</td>
<td>Bio-informatics Institute (BII)</td>
<td>Advanced Remanufacturing and Technology Centre (ARTC)</td>
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<tr>
<td>Institute of Microelectronics (IME)</td>
<td>Genome Institute of Singapore (GIS)</td>
<td>A<em>STAR Skin Research Labs (A</em>SRL)</td>
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<tr>
<td>Singapore Institute of Manufacturing Technology (SIMTech)</td>
<td>Institute for Infocomm Research (I2R)</td>
<td>A*STAR Infectious Diseases (ID) Labs</td>
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<tr>
<td>Institute of Materials Research &amp; Engineering (IMRE)</td>
<td>Singapore Institute for Clinical Sciences (SICS)</td>
<td>Singapore Institute for Food &amp; Biotechnology Innovation (SIFBI)</td>
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<tr>
<td>Institute of High Performance Computing (IHPC)</td>
<td>Singapore Immunology Network (SIgN)</td>
<td>Institute of Sustainability for Chemicals, Energy and Environment (ISCE2)</td>
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<tr>
<td>Institute of Molecular &amp; Cell Biology (IMCB)</td>
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<td>Bioprocessing Technology Institute (BTI)</td>
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1 ISCE2 is a re-organisation of A*STAR's former Institute of Chemical and Engineering Sciences, which was established in the 2000s.
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.

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

**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.

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

**Urban and Green Technology:** Focus on CCUS, energy efficiency/electrification, infrastructure, waste valorization and sustainable manufacturing technologies to mitigate climate change effects.
A*STAR Talent Strategy – 3 Strategic Thrusts

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

- **CREATE**
  - STEM outreach to enthuse young to take up science and research as a career

- **INVEST**
  - Scholarship strategy to meet scientific talent needs

- **DEVELOP**
  - 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
National Science Scholarship (BS-PhD)

Graduate
National Science Scholarship (Masters)
National Science Scholarship (PhD)

Post-Doctoral
A*STAR International Fellowship (AIF)

OVERSEAS

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

**ARAP**
A*STAR Research Attachment Programme

**SINGA**
Singapore International 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

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

**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

Terms of Award

- Monthly stipend of S$2,000

Application Closing Dates

15 February, 15 June, 15 October

www.a-star.edu.sg/SIPGA

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](http://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
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)

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

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

Recruit Students to apply for approved project
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
THANK YOU

www.a-star.edu.sg