



Australian Jobs Act 2013

AIP Plan reference code:

Australian Industry Participation Plan Summary - Project Phase

Nominated project proponent: QUEENSLAND SEMICONDUCTOR INITIATIVE PTY LTD

Project details

Name: Sovereign Semiconductor Manufacturing Facility

Location: Toowoomba, Qld, 4350

Type: Factory

Purpose: Establish new facility

Capital expenditure: \$500 million - \$1 billion

Description: QSI will establish Australia's first commercial small-scale semiconductor foundry (Fab 1), supporting both 6-inch compound semiconductors (e.g. SiC, GaN) and 8-inch silicon wafers. The facility will enable Australian companies to transition from R&D to prototype and short-run manufacturing in sectors including defence, space, energy and medical technology. Fab 1 will comprise a 1,000m² ISO-class cleanroom constructed within an industrial warehouse, including sub-fab areas, plant rooms, process gases, ultra-pure water systems, abatement, HVAC, secure IT infrastructure, materials handling and engineering support space. Weekly capacity is designed for pilot and short-run production. Process tools (deposition, lithography, etch, metrology and test) will be procured in parallel and have typical lead times of 12–18 months. 2026: Secure funding, complete site acquisition, detailed design and regulatory approvals. Q3–Q4 2026: Appoint one Head Contractor (Design & Construct or EPCM model), appoint specialist cleanroom and services contractors, and commence procurement of long-lead infrastructure and semiconductor process tools. Q1 2027: Commence construction and facility fit-out. Late 2027: Tool installation, commissioning and pilot production readiness. Operational readiness is targeted within approximately 12 months of construction commencement, subject to equipment delivery. QSI expects to appoint one primary Head Contractor under a D&C or EPCM structure within 6 months, supported by specialist subcontractors. Major process tools will be procured directly from OEM suppliers. The strategy includes competitive tendering, early ordering of long-lead items, milestone-based stage payments, and parallel procurement of building works and fabrication equipment to manage schedule and cost risk. QSI intends to seek support from the National Reconstruction Fund and Future Made in Australia programmes, alongside private equity.

Completion date: 22 Jun 2032

Key goods and services

Indicative list of key goods and services to be acquired for the project:

Key goods and services	Opportunities for Australian entities*	Opportunities for non-Australian entities	Explanation for no opportunities for Australian entities
ISO7 cleanroom	Yes	Yes	
Special gases gas house	Yes	No	
Plant gas house	Yes	No	
Water purification plant	Yes	No	
Water recycling plant	Yes	No	
Site Wharehouse	Yes	Yes	
Cleanroom Infrastructure	Yes	Yes	
Building facilities (Special gases, facility gases, water, power)	Yes	Yes	
Specialist process tools	Yes	Yes	
Cleanroom HVAC & Air Handling Systems	Yes	Yes	
Process Gas Delivery & Distribution System	Yes	Yes	
Ultra-Pure Water (UPW) System	Yes	Yes	
Exhaust & Scrubber System	Yes	Yes	
Facility Monitoring & Building Management System (BMS)	Yes	Yes	
Waste Treatment & Chemical Storage	Yes	Yes	

* An Australian entity is an entity with an ABN or ACN

Project standards:

Australian
International

Supplier information and communication

Project proponent's contact person for supplier enquiries:

Contact person name Anthony Christian
Contact person position Director
Phone number 0433843451
E-mail anthony@qld-semi.com

Project proponent website: www.qld-semi.com

Project opportunities website:

TBA

Supplier engagement and communication actions :

- Promote project opportunities through industry associations
- Engage with vendor identification agencies on project opportunities and bid processes
- Conduct supplier information briefings on project opportunities and bid processes
- Directly contact suppliers with information on project opportunities and bid processes

Building Australian industry capability

Supplier capability development actions:

- Recommend suppliers undertake training and/or accreditation
- Encourage joint ventures and alliances between suppliers
- Encourage Australian entities to undertake research and development and innovative activities

Global supply chain integration actions:

- Introduce suppliers to global supply chain partners
- Provide references for high performing suppliers

Feedback:

The project proponent will ensure that its procurement entities offer, and if requested, provide feedback to Australian entities whose bids to supply key goods or services for the project have not been successful. Feedback will include recommendations about any relevant training, skills capability and capacity development.

Australian Industry Participation Plan Summary - Operations Phase

Nominated facility operator: QUEENSLAND SEMICONDUCTOR INITIATIVE PTY LTD

Facility details

Name: Sovereign Semiconductor Manufacturing Facility

Location: Toowoomba, Qld, 4350

Type: Factory

Key goods and services

Indicative list of key goods and services to be acquired for the new facility:

Key goods and services	Opportunities for Australian entities *	Opportunities for non-Australian entities	Explanation for no opportunities for Australian entities
Dry Etch Equipment - Project manager responsibility	Yes	Yes	
CVD Deposition Equipment - Project manager responsibility	Yes	Yes	
Thermal Processing Equipment - Project manager responsibility	Yes	Yes	
Wet Etch Equipment - Project manager responsibility	Yes	Yes	
Photolithography exposure Equipment - Project manager responsibility	Yes	Yes	
Photolithography coating Equipment - Project manager responsibility	Yes	Yes	
Process metrology Equipment - Project manager responsibility	Yes	Yes	

*An Australian entity is an entity with an ABN or ACN

Facility standards:

- Australian
- International

Supplier information and communication

Facility operator's contact person for supplier enquiries:

Contact person name Anthony Christian
Contact person position Director
Phone number 0433843451
E-mail anthony@qld-semi.com

Facility operator website: www.qld-semi.com

Facility opportunities website:

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Feedback:

The project proponent will ensure that its procurement entities offer, and if requested, provide feedback to Australian entities whose bids to supply key goods or services for the project have not been successful. Feedback will include recommendations about any relevant training, skills capability and capacity development.