

THE MORSE

Osborne Naval Shipyard Project Newsletter

The announcement of the Australian Government's Naval Shipbuilding Plan has resulted in a busy year at the Osborne Naval Shipyard (ONS).

Works on the Osborne South Development Project (OSDP) commenced on site in November 2017, and the progression of the Osborne North Development Project (ONDP) was announced just this month.

From development through to construction, implementation and everything in between, the Naval Shipbuilding Plan is creating economic benefits and increased employment both locally and across Australia.

Australian Naval Infrastructure (ANI) for instance, which is tasked with overseeing the development works across the shipyard, has grown from a workforce of 18 to 27 in 2018. Lendlease, as managing contractor, has engaged numerous local subcontractors and suppliers and are forecasting more than 400 personnel on site by mid-2019.

Our structural steel fabricators and installers, Samaras and SA Structural Steel expect to increase their workforce by more than 40 and 80 respectively to accommodate the increased work generated by the OSDP project.

The Project has also seen opportunities extended to South Australian youth through undergraduate, graduate and intern programs, as well as apprenticeships and traineeships across all areas.

And ultimately, the additional people on site and in the area generates an increase in patronage to local businesses and shops, providing greater opportunities for local employment.

With the announcement of the next stage of the Naval Shipbuilding Plan, the ONDP, which involves the construction of facilities for the Future Submarine Program, 2019 looks to be equally as beneficial for industry and locals.

The team at ANI would like to take this opportunity to thank the community and businesses in and around the Osborne Naval Shipyard for their patience and support during the construction phase of the Naval Shipbuilding Plan.

We wish you all a safe and happy holiday season.

The first structural steel was erected at OSDP in November 2018



Maximising Opportunities for Our Youth

Ensuring the future of the Naval Shipbuilding Plan requires the ongoing education and training of Australia's workforce across a multitude of industries.

At the current construction phase, several opportunities have evolved to assist in the process of educating and training our youth in particular. These programs involve all participants constructing the facilities for the Naval Shipbuilding Plan, including:

- ANI, whose role it is to develop the infrastructure needed to house the ship and submarine construction, where University students are being offered vacation employment to learn about project management and the oversight of works on major infrastructure projects,
- Lendlease, the managing contractor for the OSDP, who are providing opportunities through their internships and graduate program, and
- Through apprenticeships and traineeships with the local subcontractors and suppliers working on site. An apprenticeship or traineeship allows young people to become qualified in a trade or vocation and be paid a wage while they learn. Training usually includes a mix of classroom or workshop learning and practical learning on the job with the employer.

We talked to some of the undergraduates, graduates and apprentices working on the OSDP about their experiences.

Graduate Programs

Jade Baker

Jade is an Architectural Design graduate from the University of Adelaide. She works as a Graduate Quality Engineer for Lendlease.

During my first year in Uni, I became an intern at Lendlease through their program for Indigenous University students, CareerTrackers. At the end of my final summer internship (2017/2018), I was offered a full-time position with the building team on the OSDP. Next year, I will be starting the two-year Lendlease graduate program as a site engineer.

I work on the sustainability aspects of the site, reporting to the regional sustainability manager, and am a 'footprint champion' for Lendlease in SA, which is Lendlease's emissions reporting platform. I also work closely with the heritage aspects

of the project, including overseeing heritage monitors on site and being a key point of contact for them.

As an architectural design graduate, I was already pushing my knowledge boundaries working as a site engineer, so every day I'm still asking questions. The mind of an architect works a little different to an engineer's, so I am learning both sides of the coin, so to speak.

Working on the OSDP has enabled me to develop close working relationships with ANI staff as well as our Lendlease consultants throughout the project, which is something you just cannot learn in a class room!

As well as the CareerTracker program, which introduced Jade to on-site opportunities, Lendlease run a two-year graduate program across the country, providing participants access to structured professional experiences that ensure development and growth. Applications for the Lendlease graduate program open in February 2019 and details are available on their website.



Apprenticeships and Traineeships

The increased work brought about by the projects at the ONS has facilitated many new apprenticeship and traineeship opportunities.

There are many types of trades and vocations to choose from, including boiler maker / welder, electrician, plumber, carpenter and joiner.

The www.sa.gov.au website provides further information on apprenticeships and traineeships in South Australia.

Jacob King

Jacob King is a second-year boiler maker apprentice at Samaras Group.

As part of his apprenticeship, Jacob will prepare drawings for the boiler and build it with steel supplied by the ONSP. Jacob has also worked on the fabrication and welding of the roof bracings, truss bracings, and columns for the building structures.

Jacob's team consists of leading hands, boilermakers, welders, and other valuable team members. An important learning included working as a team "to keep things flowing in the workshop."

"Every day is full of learning experiences that will benefit me in the long run for future projects.

"Since I started, I've learned that this project is very important and requires a lot of attention to quality and detail. Taking pride in my work and being professional will help me become a better craftsman in any job I do in the future."

ANI University Placement Program

Many courses require students to undertake practical or industry placements during their studies.

Industry placements allow students to cement their academic learning with practical experience, providing them an opportunity to develop skills that are difficult to acquire at university – e.g. team integration, exposure to project management systems, leading and presenting at meetings, as well as project reporting and auditing processes. As well giving students industry-relevant experience to add to their CVs, placements provide valuable industry contacts and increase chances of finding ongoing employment after students have completed their degrees.

After working with the University of South Australia and the University of Adelaide, ANI has engaged four undergraduates to undertake industry placement roles on the OSDP. These positions were advertised through the Universities, and students had to apply and interview for the positions in the same way they would if they were applying for permanent jobs on a project.

We asked the four successful candidates about themselves, their studies and aspirations, and what their placement at ANI means to them.



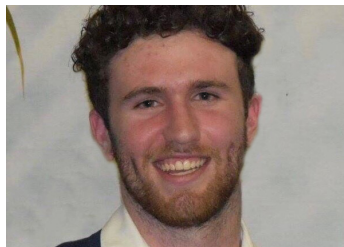
Samantha Stevens

Samantha grew up on a small rural farm approximately three hours from Adelaide, in Wirrabara located in the Flinders Ranges. She moved to Adelaide to undertake a Bachelor of Mechanical Engineering degree at UniSA

Next year, I'm looking at integrating more of my knowledge from my mechanical engineering degree into my race bike by incorporating 3D printing and CNC machining manufacturing methods to develop alternate components for the bike.

My ambition once I complete my degree is to embark on a career in the field of automotive/heavy machinery design.

Gaining placement with ANI has provided the opportunity for me to experience first-hand the characteristics/ involvement that is required of an engineer on projects such as the OSDP. On completion of my placement I hope to have developed some of the professional skills which are highly valued by industry but can't be learnt at University.



William McPherson

William has lived in Largs Bay the whole of his life and has been actively involved in the local football clubs which has fostered many lifetime friendships in the area.

I am in my final year of a Bachelor of Engineering (Civil and Structural). I am also completing an honours project in 2019. My passions revolve around the fields of geotechnical engineering as well as structural concrete and steel.

This placement is the first exposure I've had to engineering work on an active site and it provides me the opportunity to see the theory learnt at Uni applied in the real world. It also enables me to experience things I can't learn at Uni, such as Quality Auditing and conformance.

The placement also provides the opportunity to meet people from the industry, hear their experiences and learn from them, expanding my network which can be useful when searching for jobs at the end of my degree.

I feel very lucky and thankful to be given this opportunity on such a key project which will benefit my local area as much as it will broader industry.



Mansoor Alizada

Mansoor moved to Australia in 2008. He has just finished his third year of a Civil and Structural Engineering degree at the University of South Australia. Mansoor is an avid soccer fan and plays for his local soccer club.

After University I hope to work at a company where I feel respected and can work hard to drive that company forward. I want to be able to grow into a leadership role by learning and gaining experience from the senior staff here at ANI or any other place that I might work.

I see working at ANI as a great opportunity that will assist me to get where I want to be in the future. In today's competitive market, being able to work on a project of this magnitude alongside experienced staff will give me, I believe, a competitive edge when looking for work.

By the time I complete my 12-week placement with ANI, I hope to have a clearer understanding around the preparation, design, construction and delivery processes of a project.



Aden Cracknell

Aden was born in Adelaide and has lived here his entire life. He is 23 years old and an undergraduate at the University of Adelaide, studying his fourth year of a Bachelor of Mechanical Engineering.

My aspirations are to be involved in exciting projects that require a combination of skills from varying disciplines.

Being a part of ANI's program will allow me to gain field experience, which a Uni degree will always struggle to offer. Experiencing and witnessing industry practices first hand is dramatically different from being told about it in lectures or reading about it from a textbook.

During my time at ANI I hope to gain knowledge from experienced colleagues around me and use this to improve my understanding of project management in large projects. Hopefully this will transfer into my skills and capabilities as a 'soon-to-be' engineer and I can apply these to any future work I am involved in.

I also hope to use this program to help identify a preferred field that I could see myself working in soon.



Announcements and Project Updates

ANI hosted two events on the 13th and 14th of December around announcements and ceremonies relating to the Australian Government's Naval Shipbuilding Plan.

Osborne North Development Project (ONDP)

On Thursday, 13 December, an historic sod turning ceremony took place to mark the commencement of construction works on the Future Submarine Shipyard site at Osborne Naval Shipyard (ONS).

Minister for Defence, the Hon Christopher Pyne MP also announced Laing O'Rourke Australia as the managing contractor for the works, which will see the construction, refurbishment and modernisation of purpose-built facilities specifically designed to enable the most effective manufacture of Australia's Future Submarine fleet.

Chief of Navy, Vice Admiral Michael Noonan announced that Australia's new future submarines will be known as the Attack class. He said the Attack class will provide Australia with a regionally superior submarine, which "... will meet the Navy's capability needs and help protect our security and prosperity for decades to come.

Osborne South Development Project (OSDP)

Friday, 14 December, the elevation of the first steel framework was acknowledged as a major milestone event. The Minister for Defence, the Hon Christopher Pyne MP, and the Minister for Finance, Senator the Hon Mathias Cormann, said that it was fantastic to see the project achieving significant milestones.

Both the Osborne South and North Development projects will generate hundreds of construction and infrastructure roles at the ONS and throughout the local and national supply chain.

Contract Signed for Future Frigate Program

A contract between the Commonwealth and ASC Shipbuilding, a subsidiary of BAE Systems Australia, was also signed at the ONS for the SEA5000 Hunter Class future frigate program.

Minister for Defence, the Hon Christopher Pyne MP, and the Minister for Finance, Senator the Hon Mathias Cormann, congratulated everyone involved in the occasion.

"This is a fantastic day because we have delivered on our promise to sign this contract before the end of the year," said Minister Pyne.

"The \$35 billion program will provide the Navy with a world-class anti-submarine warfare capability, create thousands of jobs and contribute billions of dollars to the national economy."

"A recent Oxford Economics report into the program revealed it will contribute an estimated \$17 billion to the national economy and generate over 6,300 full-time jobs across Australia at the program's peak in 2028."

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