

ENGINEERING

ENGINEER YOUR CAREER



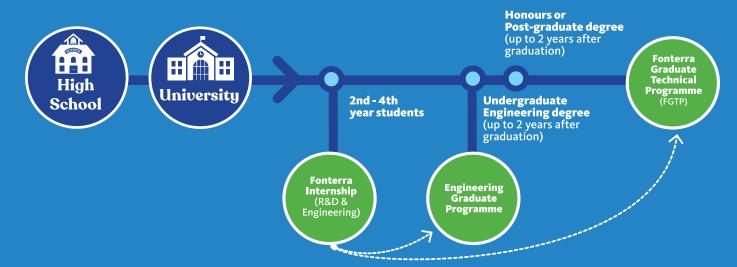
onterra

Dairy for life

Information from Industry for Student Engineers

Engineer your Career with Te Mātapuna Fonterra

We offer dynamic graduate roles and internships in the exciting world of Science, Technology, Engineering, and Mathematics. Seize the opportunity to innovate, learn, and grow with a global dairy leader. Visit our website or email us today for more information.



Learn more from our Early Career Engineers inside



Hinearangi Ngatai

Apprentice Mechanical. Engineering Maintenance

"Embracing the challenges of learning this trade is essential—it's not meant to be easy, but each hurdle presents an opportunity for significant personal and professional growth. Whether diagnosing and fixing machinery issues or collaborating with diverse team members, every day offers a chance to learn, adapt, and contribute meaningfully to our operations at Fonterra."



Georgia Couper

Technical Assistant

"Working at Fonterra has surprised me with its variety of career opportunities and diverse workforce. I really enjoy getting a big-picture view of what is going on, embracing challenging roles and unexpected opportunities. Supported by mentors, this approach has been key to my career advancement. I am passionate about learning and maximising my role at work."



For more information and to read more about our FGTP Engineers stories, simply scan the QR code.



To Apply for Research and Engineering Internships (based in Palmy) by scanning the QR code.



Register your interest

to our Engineering Internships by scanning QR code below (Applications open 19 July)



Follow us on social media @fonterraearlycareers or contact via email: earlycareers@fonterra.com

"It's been really cool to see things you learn in university and really putting that into practice and seeing how it makes a change for locals."

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WSP is a world-leading engineering, design, and environmental consultancy that creates what matters for future generations.

Our Graduates and Summer Interns are the foundation of our future

We are hiring throughout our 30+ offices that span Aotearoa New Zealand, across a variety of disciplines, including engineering, engineering geology, architecture, planning, environmental science, ecology, GIS, property, data science, and economics.

What if you could turn your passion into your profession? With us, you can.

JOIN US

Applications for our Summer Internships are open 8 July - 1 August 2024. www.wsp.com/nz/summer-interns

Our 2026 Graduate role applications are expected to open February/March 2025. www.wsp.com/nz/graduates

MEET US

Visit our booth and learn more about WSP at the CDES Internship & Graduate Career Expo.



Evander Patel Graduate Engineer Transport and University of Auckland civil engineering graduate, shares what a day in his life is like as a WSP Graduate in Tāmaki Makaurau Auckland:

7.45 am

My journey into the Auckland office takes 30 minutes. WSP has a hybrid work structure, but I really enjoy making the most of being in the office alongside my team.

8.15 am



When I arrive to the office, I start by checking my emails and Teams messages, which allow me to plan my day effectively.



Task 1 of the day involves

resolving comments for an intersection upgrade in New Plymouth. We are using Civil 3D and AutoCAD software to complete the design.

10.00 am



Today we have our fortnightly in-person team meeting. The primary focuses include individual workload, upcoming jobs, and team utilisation.

11.15 am

I work on a spreadsheet of potential site risks for tomorrow's Safety in Design meeting.

12.30 pm

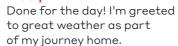


Midday means lunchtime! I usually bring something from home, but today we are lucky enough to have a company provided shared lunch.

1.00 pm

I have a site visit this afternoon in Kumeu in preparation for a road safety barrier design project. I take measurements and identify obstacles that may hinder the design process.

5.00 pm



7.00 pm

I try my best to keep active in my free time after work. Tonight, I have Football out at Western Springs.

DESIGN YOUR

Civil | Structural | Construction Engineering | Virtual Design & Construction (VDC)



We're seeking passionate individuals to contribute to a diverse array of projects across the globe. Work with a highly skilled team on complex design projects with plenty of opportunities for learning, development, and mentoring. Apply today to design your future with Robert Bird Group, guided by our specialist engineers!

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www.tonkintaylor.co.nz/careers

LinLin Liang, Implementation Consultant

New Zealand Tax Project - Wellington, NZ | UoA Alum, 2024

After starting with FAST as an intern, I became a full-time Implementation Consultant (IC) in March 2024. My favorite part of the IC role is the combination of coding and consulting. I get to speak directly with Inland Revenue (IRD) employees to understand what they need, develop code and processes that affect their work, and contribute to systems used by millions of New Zealanders. It's so rewarding to make a difference using the technical skills I built while earning my undergraduate and graduate degrees. I have always been keen to continuously develop my skills and take on new challenges, and I get to do both in my career with FAST.

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Scan the QR code or visit fastenterprises.com/careers to learn more about our Talent Community.



About Fast Enterprises

FastCore software provides digital-first capabilities for modern governments. Our project success rate of 100% reflects our company culture: We keep our promises, stick to our values, view challenges as opportunities, and support each other every step of the way. We've been proud to partner with the University of Auckland since 2016-and UoA alumni are proud of the work they do at FAST.

Internship Programme 24/25

The basics...

Location: Auckland (throughout)

Engineering disciplines: Civil, Mechanical, Chemical and Materials Engineering, Electrical, or Engineering Science.

Join our industry leading water engineering internship programme to kickstart your water career. You'll get real life experience in a programme that gives you meaningful work, is flexible, developmental, and supportive.

Apply today:



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Future opportunities 100% of eligible engineering interns have accepted graduate roles with

Development

You'll learn on the job, through training, and through our Intern group

Fun

We offer experiences outside of work including: sports development day, and young

Real work

In our internship you'll be doing work that pushes and



Optiver **A**

CAREERS GUIDE

Engineer your future

About us

Optiver is a leading global market maker. With close to 2,000 employees in 11 offices around the world, we're united in our commitment to improve global financial markets.

Discover how your background in STEM could kickstart your career at one of the world's leading tech-driven trading firms.

Accelerate your career with Optiver

We're constantly looking for strong analytical minds to join our internship and graduate programs, across trading, tech and research.

No industry knowledge is required as we recruit problem solvers from all disciplines, particularly those in STEM and quantitative/technical degrees.

Led by ex-traders and ex-engineers, our renowned training programs will empower you with the skills and knowledge needed to excel in our collaborative, fast-paced environment.

Discover our internship program: optiver.com/internships

Discover our graduate program: optiver.com/graduates

FutureFocus

FutureFocus is a three-day insights program, designed to introduce prepenultimate students to the exciting world of trading and tech.

Join us in September to learn the fundamentals of trading, gain unique insights into Optiver's world-class trading systems and develop the key skills that our traders, researchers and engineers use every day.

Discover our pre-penultimate program: optiver.com/futurefocus

Interview with Raymond

Prior to joining Optiver as a Software Engineer, Raymond studied a Bachelor of Software Engineering at the University of Auckland. In this interview, he shares his experience in the graduate program and how the team has supported him to build his career in tech.

What are some of the exciting projects that you've been involved in?

Both the technical and trading problem at Optiver are highly interesting and exciting to work on. I work in the Post trade team, which essentially asks the question: what is our current position. and how much cash, profit or risk do we have at a point in time?

We often work with huge amounts of data, and use a mix of different technologies (such as C++, Python, C#, TypeScript) and database implementations to build creative solutions. We also work closely with internal and external stakeholders, such as clearers and banks, to fully formalise the picture.

How did Optiver's graduate program set you up for success in your role?

Optiver has a comprehensive training program that gives you a well-rounded introduction to Optiver's core business of market making. Over the course of eight weeks, you'll learn about trading theory, dive into hands-on research, simulated trading, and explore Optiver's technology stack through practical exercises.

house education team and other grads to understand the concepts, and over

Stay connected with us



You'll work super closely with Optiver's in time, develop close friendships with your

cohort. The support you get from the education team and group discussions is invaluable. You'll be surprised by how much you learn about trading and the financial markets by the end of the program.

What do you enjoy most about working at Optiver?

I really enjoy learning about the finance domain and developing solutions that solve real business problems. From the outside, it may seem like all engineers at Optiver are trying to implement trading strategies, but this really isn't the case.

We have a range of development teams working on various interesting problems. This could range from how we can minimise latency between servers, or develop robust CI/CD and deployment pipelines, to modelling complex financial instruments. There are a lot of unique and challenging problems that you can tackle at Optiver.

Share one piece of advice for those that are looking to apply!

Give it a go even if you don't know much about trading. If you're interested in working on good engineering or curious about how the financial markets work, Optiver is a great firm to join and explore these areas. You'll be surrounded by people who are willing to have interesting conversations that will help develop your career.



in @Optiver

@optiverglobal



INITIA GEOTECHNICAL SPECIALISTS

Small but mighty: Initia offers a wide range of experience on major projects for new grads

Kieran Bursell joined New Zealand geotechnical specialist firm Initia two years ago after his first three years at a large consultancy. Since then, his career as a geotechnical engineer has gone from strengthto-strength and he hasn't looked back.

One of the things Kieran enjoys most about his job at Initia is the variety. Each day is different and covers anything from managing geotechnical investigations and visiting construction sites to undertaking complex geotechnical designs for a range of major projects.

Some of Kieran's current projects include the \$1billion Ohinewai Sleepyhead Estate development and the new Auckland Surf Park. For the Sleepyhead Estate, Kieran designed ground improvement works to address major liquefaction and settlement risks

The Auckland Surf Park will be New Zealand's first man-made surfing facility including a 2 h.a. Surf Lagoon. For this, Kieran provided geotechnical analysis for earthworks, infrastructure support on the job." and building foundations.

Earlier this year, after the Auckland Anniversary floods. Kieran was also part of the front-line emergency response. He and his colleagues visited affected cliff-top properties around Auckland's coastal fringe and provided guidance to owners around damage and further risk

It's the kind of immediate, agile and hands-on approach Kieran loves about his job, and what led him to join Initia two years ago.

Before making the shift, Kieran felt his professional development had stagnated. He'd become good at specific tasks, but felt he lacked experience and exposure in other areas of geotechnical engineering. For Kieran, those gaps reflected the setup of his then-workplace.

"Within a larger consultancy, it was quite easy to get pigeonholed in your role doing repetitive tasks," he says. "The company had a wealth of areat resources formal training sessions and processes to follow. However, it was sometimes challenging to seek training and

So, as Kieran says, the shift to Initia was about getting the best of both worlds. With a team of 25, Initia works closely together on big projects, which means there's a lot of support from senior engineers for team members wanting to gain experience in different areas, Kieran says. Alongside that, the company has a wide range of projects, including major developments, which

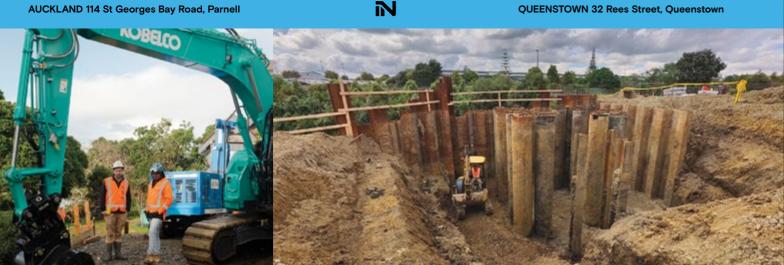
means ongoing technical development and exposure to different areas of the field. "Everyone gets to work on a huge range of tasks and my career progression has accelerated drastically because of this." Kieran says.

Kieran says the leadership of senior engineers, who set the tone with their "hands-on" approach to work, has been integral to his development in the past few years. It's a "team culture where everyone contributes, shares expertise and helps each other out", he says.

For these reasons Kieran recommends new grads consider applying for roles at companies like Initia where they'll get a broad range of experience on both big and small projects, "Since starting at Initia I've worked on some really big and exciting projects. While our team is smaller, we are a tight-knit group and we consistently deliver great results for our clients," he says.

To find out more about what we do visit initia.co.nz/careers or get in touch today at careers@initia.co.nz

QUEENSTOWN 32 Rees Street, Queenstown





Graduate & Intern Programme

PDP are one of Aotearoa's leading environmental science and engineering consultancies. Our team of experts deliver a range of solutions to our clients' environmental challenges. We cover everything from air and land to waterrelated projects.

We take pride in being an employee-owned and operated company with nearly 40 years of experience operating in New Zealand, Australia, and the Pacific Islands. Our solutions consistently meet and exceed client expectations, leading to significant, meaningful environmental outcomes for our clients.

Our offices are in Northland, Auckland, Hamilton, Tauranga, Hawke's Bay, Wellington, Nelson, Christchurch, and Invercargill.

Quality Colleagues

At PDP, we have many highly skilled people who love to share their knowledge and expertise with our new graduates and interns. We want you to have access to this wealth of knowledge and support from day one. We believe in a friendly and collaborative work environment, where everyone is given a chance to learn and grow.

Social Responsibility

We take our social responsibility seriously and strive to impact the environment and communities we live in positively. We measure our waste, carbon footprint, and other consumables as part of our Sustainable Business Strategy to reduce our impact. We always recommend the best solution to our clients, considering the environmental impact.

Our Culture

We have a great company culture that values health and wellness, and we encourage a work/life balance. Our offices have regular catch-ups, outings, trips, and events planned to keep our team motivated and engaged.



For more information visit www.pdp.co.nz/careers



What We Offer

Summer Interns

Our internship programme, running from November to February, offers a hands-on experience as a junior engineer or scientist in a professional consultancy. You'll benefit from an induction programme, a dedicated buddy, and participation in social activities. The programme includes Health and Safety training, and if offered a graduate position, you'll enjoy ongoing contact, invitations to social events, and opportunities for casual or holiday work throughout your final year at university.

Graduates

Our Foundation for Success graduate programme at PDP offers a dynamic start to your career with diverse work responsibilities and a welcoming, supportive and flexible environment. You'll benefit from social and sports activities, a mentoring programme for personal development, and a comprehensive benefits package that includes health insurance, income protection, and flu vaccinations. Additionally, we provide a day off to attend your graduation.



Wastewater Modelling



Data Analytics

Stormwater Modelling

Who we are

HAL Consulting Limited (HAL) is a New Zealand-based niche consultancy specialising in three waters management. From our modelling-focused beginnings we have grown to now offer a comprehensive suite of services ranging from technical detail to strategic thinking - and the ability to communicate the complexities involved to a wide range of technical and layman audiences.

What we do

We offer technical excellence across a full range of hydraulic modelling applications, analysis of data from a variety of sources (including SCADA, GIS, flow gauging and rainfall), assessina System performance assessment and project/programme conception to address identified issues, development of high-level strategies to guide long-term three-Water management and infrastructure planning.

Oji Fibre Solutions 🛛 😂 🚱 🕀 🕀 🚱

Oji Fibre Solutions (OjiFS) is the largest integrated pulp, paper and fibre-based packaging manufacturer in New Zealand.

We are proud to create value from natural resources and be a key contributor to the to the circular bioeconomy, facilitating the move from fossil-based materials towards renewable and recyclable alternative, and more sustainable consumption.



CONNECTING PEOPLE

OUR PEOPLE	OUR SUPPLIERS	OUR COMMUNITIES
Enhancing our employees' experience and growing their capability	Maintaining an ethical supply chain	Sharing the opportunities of the circular bioeconomy

PULP & PAPER SUMMER INTERNSHIP PROGRAMME (Paid work experience from November to February)

Ready to bridge the gap between theory and reality? Join our Pulp & Paper Summer Internship Programme and get hands-on experience at either one of our two largest pulp and paper mills: Kinleith Mill in Tokoroa or Tasman Mill in Kawerau

Our mill facilities are often described as engineer's playground with large-scale equipment that forms the backbone of our operations. Alongside our supportive, diverse, and talented engineering teams, you'll get to tackle some exciting projects that will provide a head start in your engineering career.



Bob Wardill

Graduate Engineer

The care and dedication to development that goes into the graduate programme at HAL is extraordinary. Working with such experienced and welcoming professionals has fastforwarded my career to a level I never thought I would reach so quickly, and I've enjoyed every minute of it. If you're passionate about people and keen to make a real difference, then the HAL family might be the right fit for you.

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Sifra Aprily

Graduate Engineer

HAL has been an incredible start to my industry experience. Here, I've had the opportunity to learn hands-on about three-water modelling and planning from approachable experts who are always keen to guide me. My journey with HAL began as an intern, where I recieved valuable training and support, and now, as I tranisition into my graduate role, I feel well-**99** prepared and confident to take on new challenges!

Bernadette Yafar Engineering Intern

[•]Joining HAL as an Intern has been an incredibly rewarding experience. From day one, I was welcomed into their collaborative, supportive, and fun team environment. The mentorship I've received from all the experienced engineers at HAL has been instrumental in developing my technical skills relating to data analysis and three-waters modelling, boosting my confidence, and gaining an understanding of the engineering world as a whole. 99

www.halconsulting.co.nz



info@halconsulting.co.nz

ojifs.com



Creating sustainable solutions to make a difference every day

In July and August each year, we invite applications from 3rd and 4th year Electrical, Mechanical, and Process/Chemical engineering students, to apply for our Summer Internship intake.

Benefits:

- Competitive salary throughout the internship programme.
- A one-off Student Assistant payment upon commencement.
- · Established carpooling options from major nearby towns, ensuring convenient and stress-free commuting.
- Hands-on experience working on real-world projects alongside industry experts.

APPLICATIONS OPENING SOON!

Scan the QR code to learn more about Summer Internships and Graduate programmes at Oji Fibre Solutions



DOBBIE

Engineering **Your Career**

Fraser Scanlen joined the Dobbie team a year and half ago after graduating with a bachelor's degree in mechanical engineering. His career has since skyrocketed, read about his journey so far.



Dobbie Engineering is an award-winning mechanical engineering consultancy with offices in both Auckland and Rotorua. We specialise in providing solutions to the primary and manufacturing industries with clients that span the geothermal and energy sector through to food processing, dairy, and forestry sectors.

Fraser's journey with Dobbie began right after he graduated with a bachelor's in mechanical engineering (Hons). Drawn by his passion for mountain biking and the outdoors, moving to our Rotorua office fulfilled both his lifestyle and career choices. At Dobbie, Fraser believes he has found the perfect blend of an exciting career and an adventurous lifestyle.

In just a year and a half as a Graduate Mechanical Engineer, Fraser's career has skyrocketed. He has tackled diverse projects, including complex designs, and feels he has progressed faster than his peers at larger firms. Dobbie, says Fraser, "offers unique opportunities for firsthand learning and rapid growth."

Since joining the team, Fraser has immersed himself in mechanical and process design and technical analysis. The "smaller" consultancy environment allows him to get involved throughout the whole engineering process, from collaborating directly with stakeholders, conducting site visits, pricing jobs, and providing solutions. This experience has given him comprehensive exposure to every level of mechanical engineering consulting.

Currently, Fraser is collaborating on a community-focused project. He is designing piping & plant infrastructure to rejuvenate a popular public bathing site. This project,

with its cultural and environmental significance, excites Fraser as it aims to restore a beloved local spot for future generations.

Fraser admits his graduate program felt like a "baptism by fire," but he values the hands-on approach fostered by our Principal Engineers and Directors. With over 30 years of experience, Dobbie's mentorship has been invaluable. The firm yet supportive guidance, coupled with challenging projects, and career planning has been crucial in Fraser's journey towards becoming a Chartered Professional Engineer (CPEng).

Fraser highly recommends Dobbie to new graduates. He believes Dobbie's supportive environment and extensive mentoring can fast-track your career. "At Dobbie. you'll work on diverse projects, engage with multiple stakeholders, build your experience portfolio, and have the opportunity to specialise or become a Chartered Professional Engineer."

Ready to launch your engineering career?

Visit dobbie.co.nz/careers or contact us at careers@dobbie.co.nz.



Join our team and gain experience in various industries with a range of clients.

KICKSTART YOUR CAREER AT DEVELOPED

Ready to make an impact in Auckland's Land Development scene? Join Developed, a leading multi-disciplinary company shaping New Zealand's housing and property markets. We're a dynamic team who thrive on innovation and collaboration, and we're looking for talented civil engineering students to join us on our exciting journey!







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Why choose Developed Consultants for your career launchpad?

Variety and Exposure

Work on diverse projects, from small subdivisions to large multi-stage developments. Gain invaluable insights into the industry and shape Auckland's landscape.

Professional Development

Access mentorship programs, ongoing training, and support for career advancement. Reach your full potential with professional certifications and industry conferences.

Collaborative Environment

We foster a culture of teamwork and innovation. Learn from experienced professionals, tackle challenges together, and create impactful solutions.

Impactful Work

Make a real difference in the community. Contribute to sustainable design practices and advancements while shaping Auckland's future.

Work-Life Balance

We prioritise a healthy work-life balance. Enjoy flexibility and support for personal and professional life, fostering a thriving workplace.



developed.co.nz info@developed.co.nz in Developed Consultants Ltd.

Jacobs

Challenging today. Reinventing tomorrow.

Unlock your purpose

At Jacobs, every day is an opportunity to make the world better, more connected, more sustainable.

We're powered by more than 60,000 people across the globe who deliver innovative scientific, technical, professional and programmanagement solutions for public and private clients around the world.

We're always looking for dynamic and engaged people to join our team. Bring your passion, your ingenuity and your vision. Let's see the impact we can create, together.

To learn more about life at Jacobs, visit **jacobs.com/careers**

jacobs.com

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I first joined Jacobs through the First Look internship program, spending two summers with the company and returned full-time to complete the Graduate Program. I now work as a Civil Engineer in the Roads and Highways team.

Jacobs has provided me the opportunity to leverage global expertise, working on projects across New Zealand and collaborating with professionals from around the world. In the Roads and Highways team, I've contributed to a diverse range of projects, from ferry terminals and bus stations to geothermal plants.

I have been able to meet new people and grow my network using the Jacobs Women's Network and Jacobs Career Network and have also developed valuable leadership skills by serving as lead on the Jacobs Collectively Committee. The company fosters an inclusive environment, and I've also enjoyed being an active member of the social club, participating in sporting teams and social events.

Sophie Gatman Civil Engineer

Practical Work Assistance Centre

Are you struggling to understand parts of ENGGEN 499?

Ve have a peer to peer support service available to help you! Some of your xperienced Part 4 peers who have already completed ENGGEN 499, will be vailable to answer any questions you have. Queries ranging from where to search for jobs, where to get CV help, questions on personal experience *r*ith internships, how to submit reports - and so on! This service is available for all BEHons students.



Starting week two of the Semester, you can drop by the Assistance Centre on the right hand side of the level 3 Leech study space. Look out for the 'ractical Work Assistance Centre Banner and Mentors in maroon coloured hoodies or t-shirts.

For details on when the drop in sessions and held and more information on the Practical Work Assistance Centre and ENGGEN 499, visit the <u>Practical Work Web-pages</u>



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