

MTPConnect's REDI Training and Development Programs

2022 – 2023





MTPConnect

MedTech and Pharma Growth Centre

REDI DEVELOPING AUSTRALIA'S
MTP SECTOR
WORKFORCE

Powered by **MTPConnect**



MTPConnect is a not-for-profit organisation aiming to accelerate the rate of growth of the medical technology, biotechnology and pharmaceutical (MTP) sector in Australia. The \$32 million Researcher Exchange and Development within Industry (REDI) initiative is delivered by MTPConnect for the Australian Government's Medical Research Future Fund. Launched in 2020, the four year program will build the MTP sector workforce, address skills gaps and enhance the entrepreneurial ecosystem.

REDI is providing industry experiences and skills development for students, researchers, clinicians, MTP professionals, entrepreneurs, and innovators. The initiative is building an industry-ready workforce with the skills and capacity to keep pace with the demands of a rapidly changing sector – for now and the immediate future.

REDI is partnering with research, training, and industry organisations to support skills development and workforce training across seven themes:

- advanced manufacturing and supply chain
- business operations
- clinical trials
- health data and cyber security
- product development & commercialisation skills
- industry fellowships/internships
- mentoring

Advanced Manufacturing and Supply Chain

Good Manufacturing Practice (GMP) Programs – Delivered by Centre for Biopharmaceutical Excellence (CBE) Consortium



Centre for **Biopharmaceutical** Excellence



GMP UPLIFT Program

CBE GMP Uplift Programs will provide participants a real-world perspective on Good Manufacturing Practice (GMP), designed to assist with the interpretation and application of GMP in practice for those involved in human health products.

Essential GMP Program is for entry level employees (new starts up to 12 months) and is a five day equivalent course, designed for participant flexibility in upskilling in fundamental GMP principles. Topics include core concepts of GMP, two elective modules across Biologics, Pharmaceuticals, Regenerative Medicines and Quality Control. Followed by GMP Workshops demonstrating the application of GMP in practice and hands-on training with application of key tasks in an experiential GMP environment. Sessions are scheduled around Australia from Q3 2022.

Advanced GMP Program is for those in a GMP role (12 months+) giving an in-depth understanding of the critical areas underpinning GMP compliance in practice. Advanced Short Courses are complementary and for those wanting to upskill across Risk Management, Investigations and Root Cause Analysis, Validation, Aseptic Practices, Audit Readiness and Advanced QMS. Designed for busy professions, facilitated online sessions will be scheduled from Q3 2022.

The Consortium includes CBE, ARCS Australia, Merck Life Sciences Australia, as well as the CBE Pure Solutions VIC, Translational Research Institute (TRI) T3 Cleanrooms QLD and UTS Biologics Innovation Facility (BIF) NSW experiential training facilities, where the Essential GMP Workshops will be held.

Quality Management Systems (QMS) Programs – Delivered by SeerPharma



Quality System Primer

This is a wholly online course. Participants will gain an introductory understanding of quality management, types and standardised Quality Management Systems and how they support MTP commercialisation: ISO 9001, ISO 13485, ISO 17025 and Good Laboratory Practice (GLP). This online training can be completed anytime from anywhere and will also help participants determine which bootcamp (ISO 9001, ISO 13485 or GLP) to take.

ISO 9001:2015 QMS Bootcamp

Targeted at organisations, companies, institutes, and laboratories that want to increase/document the quality and reproducibility of their systems and work. This three day bootcamp will give participants in-depth knowledge of the ISO 9001:2015 quality management standard and how it can be applied.

Sessions are scheduled around Australia from August 2022.

ISO 13485 QMS for Medical Devices

This course is for manufacturers and companies intending to manufacture medical devices that must comply with ISO 13485:2016. This four day workshop will provide participants with the knowledge and process steps to enable them to effectively meet the quality management system requirements for medical devices.

Sessions are scheduled around Australia from August 2022.

Good Laboratory Practice (GLP) Alignment Bootcamp

This course is for MTP businesses, institutes and laboratories that want to increase/document the quality and reproducibility of their systems and work. This three day course will teach you the GLP standard and how to start implementing an effective quality management system for your laboratory.

Sessions are scheduled around Australia from October 2022.

Business Operations

Commercialisation Competency Skills Framework – Delivered by Wrays Consortium

WRAYS



The Commercialisation Framework Supporting Biomedical Outcomes

Wrays is developing a competency framework across the different stages of the MTP value chain, providing a resource for early-stage companies and SMEs to develop, access and/or manage the range of skill sets. Wrays will present several sessions (online and/or as face-to-face training), for start-ups, SMEs and TTO (technology transfer offices) to enable them to use the frameworks to grow and develop their business. The program consortium partners include Yuuwa Capital, QRC Solutions and Biodesign/University of Western Australia.

Sessions on how to use the framework are scheduled around Australia from mid-2022.



Business Operations continued

Investment Series – Delivered by Life Sciences Western Australia (LSWA)



LSWA Investment Series

LSWA is collaborating with experienced life science professionals including the MTPConnect WA Life Sciences Innovation Hub and ANDHealth to deliver a series of workshops and presentations, and to provide a Reference Guide about commercialisation of digital health, pharmaceuticals, and medical devices.

Starting mid-2022, the program will run for 12 months and is open to all investors seeking to increase their knowledge of this growing sector.

Investor Series – Delivered by MTPConnect REDI



Investor Series

MTPConnect's REDI initiative is delivering a series of workshops to encourage investment into the MTP sector. The half-day workshops aim to improve investor's knowledge about the benefits and risks in investing in MTP companies and to facilitate better assessment of opportunities. It is open to all investors seeking to increase their knowledge of the MTP sector.

Sessions are scheduled for NSW, VIC, and SA from mid-July 2022.

Clinical Trials

Design Strategic Clinical Trials to Meet Regulatory Requirements and Payer Needs – Delivered by ARCS Australia



Foundations Bootcamp: Medical Devices or Medicines – Better regulatory, clinical and access skills for entrepreneurs, academics, and clinicians

The Foundations Bootcamps are designed for Australian MTP start-ups and small-to-medium enterprises (SMEs) developing medical devices or medicines. The bootcamps will provide practical education on incorporating regulatory and reimbursement needs – for both domestic and international markets – into the development plans to facilitate potential earlier market access. The program provides access to a faculty of skilled and experienced trainers and practitioners. The bootcamps are offered over five days as in-person events.

Sessions are scheduled for Q4 2022.



Clinical Research Associates Education Program – Delivered by ARCS Australia Consortium



ARCS Grow Program

The ARCS Grow Program addresses the workforce shortage of Clinical Research Associates (CRAs) in the clinical research sector. It provides valuable and essential knowledge to working CRAs, delivering a highly focussed training program to new CRAs to maximise their growth over the first 12 months of employment. Training includes Good Clinical Practice, stakeholder engagement, conflict resolution and the skills that will enable these new entrants to succeed in this highly challenging but rewarding career.

ARCS will also deliver a competency framework based on international and national programs, which will ensure the appropriate standards for CRAs are embedded in the Australian vocational training scheme.

The first cohort of the program will start in July 2022.

CRA Supervisor Train-the-Trainer Program

Supervisors of CRAs need to engage with and support trainees to learn the role of a CRA. They will need to understand how adults learn, how to create a positive learning environment, and be able to apply different techniques including coaching and mentoring to enhance the learning experience. Supervisors will learn to identify and overcome barriers to learning for the trainee CRAs.

Program Consortium partners include PRAXIS Australia, BeiGene Australia, Novotech, Southern Star Research and Mobius Medical.

Clinical Trial Assistant and Study Coordinator Internships – Delivered by the Victorian Comprehensive Cancer Centre Alliance (VCCC Alliance)



Overcoming cancer together



SKILLED Clinical Trial Internships

The VCCC Alliance has established two clinical trial internships to provide a pathway for science graduates into the highly competitive clinical trials field. The 40 week program includes a 38 week placement and competency-based training in metro and/or regional locations to build role-specific clinical trial knowledge, experience, and skills.

Study Coordinator SKILLED internship program entry level is PhD graduates.

Clinical Trial Assistant SKILLED internship program entry level is Honours science graduates and above.

Recruitment opens September/October each year. The program commences in February of the following year.

Clinical Trial Coordinator Internships – Delivered by PRAXIS Australia Consortium



The Clinical Trials Coordinator (CTC) Internship Program

This highly selective program offers an immersive, flexible, competency-based training model that will support interns who are pursuing careers in clinical trials. The program will be a 0.6 FTE (three days per week) internship placement over a 10 month period. This first-hand experience will enable interns to develop the practical, workplace skills. Delivery of the internship elements of the program will include leading host organisations from across metropolitan and regional Queensland, New South Wales, and South Australia. Consortium Partners include ARCS Australia (ARCS), The South Australian Health and Medical Research Institute (SAHMRI), The University Queensland Centre for Clinical Research (UQCCR), The George Institute for Global Health (TGI), SPHERE, and Sydney Health Partners.

Applications for places in this program are open from 1 July 2022 to commence in 2023.

Health Data and Cybersecurity

Understanding of and Expertise in, Big Data Analytics and Artificial Intelligence (AI) – Delivered by IntelliHQ Consortium



National Big Data Analytics and AI training program for Australian Healthcare Leaders, Clinicians, Nurses, Researchers and Scientists

Course and training materials developed in conjunction with the Massachusetts Institute of Technology (MIT) and the Gradient Institute.

Masterclass: Benefits of big data analytics and AI for healthcare leaders is created for executive leaders from within the healthcare system and is designed to update participants on current global thinking around big data analytics and AI and how the Australian healthcare system can benefit from the adoption of these technologies. Participants will gain hands on experience in evaluating AI opportunities and a working knowledge of how to assess risks and benefits of AI tools for their organisation.

Applications open May 2022.

Masterclass: Skills in big data analytics and implementation of AI for healthcare professionals is designed for clinicians, nurses, researchers, and scientists with minimal experience of big data analytics and AI. It will equip individuals with the knowledge and skills to confidently engage with and utilise AI technologies in healthcare and medical research. Participants will learn the language and knowledge of AI as it applies to their field and gain the confidence to use these tools to accelerate their own research or clinical practice.

Applications will open early May 2022.

The Medical Datathon helps ignite powerful collaborations between clinicians and data experts to solve real world healthcare problems using digital technologies. In this two-day intensive competitive event, clinician-led teams will work together to create an AI enabled solution using real-world clinical data. The Medical Datathon is for anyone who works in healthcare, medical research, data science, computer science and AI.

Registration for the datathon event opens Q2 2022.

Product Development & Commercialisation Skills

Digital Health Product Development and Commercialisation – Delivered by ANDHealth



BRIGHT Ideate 1-day Seminar – BRIGHT Future for Digital Health

ANDHealth's BRIGHT Ideate in Digital Health Seminar is designed for early-stage digital health innovators who have an idea or early prototype that can improve healthcare. Participants receive real-world advice to address key considerations for both the technical and commercial challenges of launching a digital-health business.

The course is planned for 2023.

BRIGHT Innovate 3-Day Workshop

ANDHealth's BRIGHT Innovate in Digital Health Workshop is designed for digital health companies with a digital health proof of concept they want to develop within a proven innovation framework. Participants receive digital health specific information, advice, and small group coaching, from a team of industry leaders.

The course is planned for 2023.

Digital Health Masterclass 6-day Workshop

ANDHealth's Masterclass: ACCELERATE Program is the only intensive accelerator program designed specifically for companies seeking to commercialise evidence-based digital health products. It engages with international industry leaders in a private, participant only forum. This 6-day intensive, workshop-style masterclass addresses common pitfalls and knowledge gaps that exist for digital health companies.

The course is planned for June 2022 and 2023.

Product Development & Commercialisation Skills continued

Securing Investment and/or Industry Collaboration – Delivered by the Biointellect Consortium



Venturer program

This program will provide a real-world understanding of the investment environment in Australia and other key markets – ensuring they are both investor and partner ready. It is designed for those who are looking to leverage external funding to accelerate the commercialisation of their product or take their start-up to the next level. The consortium includes Biointellect, ARCS Australia and Biodesign Australia.

The 1-day workshops are scheduled at venues around Australia in early 2023.

Unmet Market Need Identification and Understanding the Clinical Context – Delivered by Cicada Innovations



Cicada MedLab: Commercialisation 101

Cicada MedLab: Commercialisation 101 introduces fundamental research commercialisation skills in a practical and accessible way. Covering pitching, addressing unmet needs, market opportunity, basic business models, and market validation, any Australian with a potential solution in the medtech or biotech space will benefit from a Cicada MedLab workshop – including solutions across diagnostics, medical devices, digital health, therapeutics, and pharmaceuticals.

Cicada Innovations will deliver Cicada MedLab workshops across Australia commencing August 2022.

Medical Device Product Development and Commercialisation – Delivered by Medical Device Partnering Program (MDPP)



National MDPP Ideas Incubator – REDI Program

The Ideas Incubator is open to clinicians, researchers, industry, and innovators from anywhere in Australia. Successful applicants receive 250 hours of technical expertise and 30 hours of market research to help advance their innovation. This may include prototyping or small-scale user trials. At completion, MDPP hands over all the IP generated, provides a Technical Report and a Product Opportunity Assessment, which may be useful in applying for further opportunities. Applications are open all year round.

Contact MDPP for more details.

MedTech Mondays

MedTech Mondays are an educational webinar series hosted bi-monthly on the final Monday. MDPP introduces participants to experts from around the world to answer your questions on a variety of different subjects, from IP law to scaling up manufacturing and regulatory affairs. The webinar provides a place for participants to learn from real-world examples, ask questions and meet the experts.

Medtech Mondays will be held throughout 2022 and registration is open to everyone.

Venture Partnerships

MDPP is a Venture Partner with MTPConnect on several grant programs, including the Biomedical Translation Bridge (BTB) program, the Targeted Translation Research Accelerator (TTRA) and the Clinical Trials and Commercialisation in MedTech (CTC-M) program. MDPP's commercialisation experts provide mentoring and expertise to successful grantees and information to aspiring applicants.

Product Development and Commercialisation – Delivered by MedTech Actuator (MTAC)



MedTech Actuator Accelerator

Each year the MedTech Actuator Accelerator program catalyses high-potential health ventures through the 12 month industry-led, venture-backed program. The MedTech Actuator Accelerator program provides entrepreneurs with industry-led training, mentorship, an initial investment, and capital raising support. This relentless execution towards market success, makes it possible to achieve in 12 months what can typically take three years or more.

Applications open in January of each year for a July intake.

MedTech Actuator Origin

MedTech Actuator Origin is an international innovation competition for early-stage MedTech, HealthTech and BioTech entrepreneurs, providing industry-led mentoring and tailored education as participants progress through knock-out pitch rounds, culminating in the Showcase in December. Participants compete against entrepreneurs from across Asia Pacific for fast-tracked application to The MedTech Actuator Accelerator program and a share of the prize money.

Applications open in September.

Commercialisation priming and education programs

The MedTech Actuator provides tailored commercialisation priming and education programs for aspiring entrepreneurs in research institutes, universities, hospitals, schools, and industry. Ideation sessions and tailored masterclasses help aspiring entrepreneurs develop critical skills and knowledge needed to kickstart their commercialisation journey.

Enquiries are open all year round. Contact MedTech Actuator for more details.

Global Health Product Development and Commercialisation – Delivered by The George Institute (TGI) for Global Health



Health10x Global Health Accelerator Program

Health10x is a national program accelerating the business growth of start-ups developing affordable and scalable solutions for major health challenges, particularly the growing burden of non-communicable diseases (NCDs) and injury in underserved populations. The pre-accelerator and accelerator are jointly delivered by The George Institute (TGI) and the University of New South Wales (UNSW) Founders. Health10x is an annual program, open to early-stage start-ups, researchers, students, clinicians, and health innovators across Australia.

Health10x Global Health Pre-Accelerator Program provides five weeks part-time learning targeted global health modules and start-up education from leading industry experts and founders.

Health10x Global Health Accelerator Program provides 10 weeks full-time learning from industry and start-up experts via workshops, mentoring and collaborative activities; offers exclusive access to an Entrepreneur in Residence (EiR); and \$20,000 SAFE investment.

Applications open in February/March each year.

Disruptive Entrepreneurship and Innovation Training Program

The Disruptive Entrepreneurship and Innovation Training Program is designed for health researchers and health-focused professionals looking to develop foundational knowledge and skills in health commercialisation and the broader entrepreneurial ecosystem. The training modules focus on building capacity in ideation and identifying commercial ideas, market analysis, idea validation and planning for commercialisation, and communicating and presenting ideas effectively. This training is intended to help health professionals and academics understand how and why they can pursue commercialisation of research outcomes, the steps they need to take to do this, and how they can achieve impact through entrepreneurship.

The program will be introduced nationally from May 2022.

Clinical Entrepreneur Program – Delivered by the University of Melbourne and University of Western Australia Partnership



The Australian Clinical Entrepreneur Program (CEP) – Pilot

The CEP Pilot is an entrepreneurial development program, similar to an incubator program, and will deliver workshops and networking opportunities to healthcare professionals to develop their innovative ideas into products and enterprises/businesses that benefit clinical care of patients. The 12 month program is designed to help transform unmet market and clinical needs into a growing number of thriving new businesses and, overall, will build a clinical entrepreneurial ecosystem.

The Australian CEP is based on the highly successful UK NHS Clinical Entrepreneur Program and aims to develop the innovation and commercialisation skills of Australia's clinicians and healthcare professionals.

The program is recruiting in Q3 for September 2022 intake and will be offered in three States – Victoria, NSW and WA.



Industry Fellowships/Internships

Internships – Delivered by Australian Postgraduate Research Intern (APR.Intern)

APR] INTERN



PhD Student Internships

MTPConnect's REDI initiative provides eligible businesses with a \$10,000 rebate towards the cost of engaging a PhD student intern through APR.Intern. These three to six month PhD student placements allow businesses to fast-track R&D, while students are given the opportunity to develop in a practical industry research environment – strengthening research translation within the sector.

APR.Intern matches students with companies or companies with students. Internships are open year-round.

Industry Fellowships – Delivered by Bridge and BridgeTech Programs



The Bridge and BridgeTech Industry Fellowships Programs

These fellowships offer participants and alumni of the Bridge Program and the BridgeTech Program up to \$10,000 to support a three to six week industry placement within the MTP sector.

Twenty fellowships are awarded and facilitated each year (from 2020 to 2023) – 10 for the Bridge Program and 10 for the BridgeTech Program.

Placements allow fellows to develop their skills, networks, and industry collaborations, and help to boost their pharmaceutical or Medtech commercialisation pathways.

Applications open in May.

Industry Fellowships/Internships continued

Industry Internships – Delivered by GSK



GSK Graduate Researcher Program

This 12 month work placement program developed by GSK Australia is available to biomedical/science PhD graduates or postdoctoral researchers. To be eligible applicants need to have their PhD conferred at the time of application. The program provides Graduate Researchers with industry experience in a leading multi-national pharmaceutical company. The skills developed will catapult participants to the next level of their career, with a view to improving Australia's success in the commercialisation of health and medical research.

Applications for its final intake for 2023 open in October and close in November 2022.

Fellowships – Delivered by MTPConnect REDI



REDI Fellowship Program

The REDI Fellowship Program provides up to \$250,000 per Fellow per annum. The program gives mature research intensive Australian/International MTP companies (sponsors) the financial support to bring researchers, academics, clinicians and MTP professionals in-house for up to 12 months to work on priority medical research projects.

The next submission deadline is 27 July 2022. Sponsors can apply via the MTPConnect website.

Industry Mentoring

Mentoring – Delivered by IMNIS



IMNIS REDI Connect Program

Industry Mentoring Network in STEM (IMNIS) REDI Connect program matches mentees (PhD students) with senior-level industry professionals, in a mentoring and professional development program across the MTP sector and particularly in specific job-growth areas of regenerative medicine, cell and gene therapies, and digital health (including data science/AI). Applications are received year-round.

Contact IMNIS about how to become a mentor or mentee.

IMNIS Clinical

IMNIS Clinical connects PhD student mentees at the forefront of clinical and health-tech-related research with high-calibre industry champion mentors. From combating mental health disorders to using artificial intelligence to improve medical treatment, IMNIS Clinical mentees are pursuing innovations in Australia's health systems. The program bolsters the participant's understanding of industry, exposing them to new professional skills and networks, developing their capabilities and supporting their career trajectories.

IMNIS International

IMNIS International assists participating mentees to develop their understanding of the global STEM environment, international career pathways, and the economic, political, legal, and socio-cultural nuances to the domestic STEM market. IMNIS International mentees will be better equipped to understand international trends and advances in applied science, technology, and engineering, as well as relationships between international, national, and regional organisations and their impact on the regulatory environment globally.

IMNIS Catalyst – Alumni Program

IMNIS Catalyst is a one-year, ambassador-style program where former IMNIS mentees promote STEM benefits and careers across Australia's schooling system. Participants receive public communication training, with opportunities to interact far and wide with senior level high school students and the IMNIS network. Applications open in February with the program launching in March each year.

The REDI Plan for Building the MTP Sector Workforce

The MTPConnect REDI initiative leverages the expertise of our research, training and industry partners to drive skills development and workforce training, through deployment of an integrated, three-pillar plan.



Researcher Exchange and Development within Industry initiative - 3 PILLAR APPROACH

Medical Research Future Fund | \$32M over 4 years

1 Expansion of proven programs

Partners:

- ANDHealth
- GSK Australia
- IMNIS
- MDPP
- MedTech Actuator



2 Comprehensive skills gap analysis and support for new programs

Partners:

- ARCS Australia
- ARCS Australia Consortium
- Biointellect Consortium
- Centre for Biopharmaceutical Excellence Consortium
- Cicada Innovations
- IntelliHQ Consortium
- Life Sciences WA
- PRAXIS Australia Consortium
- SeerPharma
- The George Institute for Global Health
- University of Melbourne Consortium
- VCCC Alliance
- Wrays Consortium



3 Industry placements, internships and fellowships

Partners:

- APR Intern
- MTPConnect REDI Fellowship Program
- The Bridge and BridgeTech Programs



MTPConnect REDI Skills Gaps Analysis Reports

REDI has delivered a forward-looking 'root and branch' analysis of the MTP workforce to provide a deep understanding of current and future skills gaps.



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