



NHG Health Centre for MedTech & Innovations (CMTi) Clinician Innovator Preparatory Programme (CIPP) INFORMATION SHEET

1. INTRODUCTION

- 1.1. The NHG Health CMTi Clinician Innovator Preparatory Programme (CIPP) aims to introduce clinicians to the foundational skills and knowledge required for health technology (HealthTech) innovation through innovation training and project experience, as well as to foster a healthy innovation culture in NHG Health.
- 1.2. Awardees are required to complete the programme within two years.
- 1.3. The programme comprises of three components:
 - a) An award quantum of S\$20,000;
 - b) A comprehensive foundational innovation training curriculum; and
 - c) Mentorship
- 1.4. The programme is overseen by the NHG Health Centre for MedTech & Innovations (CMTi) Committee which comprises of key subject matter experts from NHG Health institutions.
- 1.5. Awardees will be offered access to LKCMedicine's library resources during the term of the award.

2. ELIGIBILITY

- 2.1. Applicants should be **medical doctors** (i.e. **clinically qualified** with MD/MBBS/BDS) or **health science / healthcare professionals** with non-medical degrees in **clinical practice**, such as nurses, pharmacists, optometrists and other allied health professions with primary appointments at NHG Health institutions.
- 2.2. Medical doctors without specialty training may apply if they are in clinical practice, excluding House Officers and Medical Officers. Senior Residents enrolled in an NHG Health Residency Programme who are in their final two years of residency and intend to continue with NHG Health upon completion of residency may be considered on an exception basis. Such applicants will be required to submit additional supporting documents.
- 2.3. Applicants who are non-clinically qualified or non-practising healthcare professionals may be considered on a **case-by-case basis**, if the proposed work is in **human clinical research** (i.e., research involving direct interaction with human subjects, excluding laboratory-only studies without clinical application), and they **hold a PhD**.
- 2.4. All applicants should also fulfil the following criteria:
 - a) Demonstrate interest in HealthTech innovation and intention to develop himself/herself as a Clinician Innovator (CI) but have little or no innovation experience; and
 - b) Able to commit time to complete the required courses under the CIPP training curriculum and project within the award period.
- 2.5. Awardees and applicants of NMRC Human Capital Awards and Talent Development Programmes such as Transition Award (TA), Clinician Innovator Award (CIA), Clinician Scientist Award (CSA), HPHSR CSA (HCSA) and Singapore Translational Research Investigator Award (STaR), will not be eligible for the CIPP.

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- 2.6. Applicants are recommended to commit an estimated 0.1FTE to complete their innovation project within the award period, with the approval from their Reporting Officer.
- 2.7. Applicants are to note that the proposed project:
 - a) Must be a HealthTech product innovation project that aims to potentially address unmet clinical needs relevant to a medical condition/ disease in healthcare. Projects focusing on process optimisation or administrative improvements would fall outside the scope of CIPP.
(Note: Scope of proposals pertaining to the development of new software (e.g. digital apps, artificial intelligence for diagnosis and/or intervention, etc.) shall be limited up to prototyping and pre-clinical testing (i.e. inclusion of clinical trials involving patient data is not allowed);
 - b) Must be a project with specific aims that can be achieved within the award quantum;
 - c) Should have a realistic timeline that ensures that applicable ethics approval(s), finalisation and execution of relevant agreements, and set deliverables can be completed within the award term;
 - d) Must specify the plans for obtaining follow-up grants for subsequent Proof of Concept and/or Proof of Value.
- 2.8. Applicants are to ensure that the appropriate collaborator(s) essential to technology development for their proposed project, are secured where required, before applying. Applicants may reach out to CMTi for assistance in matching of collaborator(s).
- 2.9. Any intellectual property (IP) developed in relation to the project would be managed in accordance with the prevailing NHG Health IP Policy.
- 2.10. Interested clinicians are strongly encouraged to contact the CIPP Secretariat for discussion on suitability of the programme prior to applying, and to engage with CMTi for support in project scoping.
- 2.11. Applicants are required to seek endorsements for their applications from the following personnel (where applicable):
 - a) Reporting Officer (RO);
 - b) Head of Department (HOD);
 - c) Residency Programme Director (PD) (applicable for Residents only);
 - d) Director/Chief/Head of Family Group (applicable for health science / healthcare professionals only);
 - e) Director of Research (DOR).

3. FUNDING SUPPORT AND TRAINING

- 3.1. Each awardee will receive an award quantum of up to S\$20,000 for up to 2 years.
- 3.2. Within this award quantum, S\$3,000 is ring-fenced for the fees of required courses under the CIPP training curriculum (refer to Annex 1). The required training courses must be completed within the 2-year award tenure.
- 3.3. The remaining S\$17,000 may be utilised as project funding (in accordance with the CIPP Funding Guidelines) and as further top-up for required CIPP training course fees, if the awardee is unable to secure funding support for training from his/her department/institution.
- 3.4. Award renewal is generally not allowable.

4. MENTORSHIP

- 4.1. Each applicant is required to nominate a mentor from NHG Health, for mentorship in the following areas:
- Guidance in their clinician innovator career development
 - Advice on their innovation project
 - Navigation to appropriate innovation resources
 - Engagement in institution or NHG Health cluster level innovation activities and initiatives.
- 4.2. The mentor should be an established clinician innovator who:
- Is involved in innovation with significant impact on clinical care;
 - Has had experience in a relevant area of innovation;
 - Has strong foundation and knowledge in HealthTech innovation;
 - Has had experience in supervising or providing innovation mentorship.
- 4.3. Applicants may also nominate additional mentor(s) including subject matter experts from industry where relevant.
- 4.4. During the award, awardees will be granted access to the subject matter experts on an adhoc basis in area(s) of their own interest. Proposed topic areas may include venture building, medical technology development cycle, medical device regulatory affairs, intellectual property, etc. This will be subsequently facilitated by CMTi.
- 4.5. Applicants may contact the CIPP Secretariat to help facilitate matching of appropriate mentor if required or refer to the [Academy of Clinician Scientists and Innovators \(ACSI\) mentors' directory](#) and NHG Health CMTi Committee Members' listing (Annex 2). Applicants are also encouraged to refer to Annex 3 for some guidance on how to engage with mentors effectively.

5. REQUIREMENTS OF THE PROGRAMME

5.1. Key Performance Indicators (KPIs) / Deliverables

KPI / Deliverable	Details
Completion of CIPP Training Curriculum	To fulfil the training requirements under the CIPP curriculum within the award tenure
Completion of Innovation Project and Fulfilment of Required Project Deliverables	To be demonstrated through CIPP Interim/ Final reports
Application to New Competitive Grant Funding for Innovation Project	Extramural or Intramural

5.2. Assessment

Awardees are required to submit an Interim Progress Report and a Final Report within 1 month after the mid-point of award and 3 months from the end of funding period respectively.

Those with outstanding report(s) for grants/programmes administered or managed by NHG Health Group Research and Innovation (GRI) that is/are not submitted by the stipulated timeline, will not be eligible to

submit new applications¹ as Principal Investigator (PI) until such report(s) is/are submitted. This will exclude report(s) with extended submission timeline as acknowledged or accepted by the grant/programme Secretariat due to a valid consideration.

Awardees are required to present to the CMTi Committee at the mid-point and/or at the end of the CIPP award period.

6. APPLICATION PROCESS

- 6.1. Applicants must comply with the requirements of NHG Health Domain Specific Review Board (DSRB) to be the PI of the proposed project and ensure that they have met the minimum training requirements of NHG Health DSRB and/or other regulatory body (e.g., Health Sciences Authority (HSA) where applicable.
- 6.2. Applicants are required to submit all application documents **in softcopy** to the CIPP Secretariat at NHG Health GRI through their Institution's Clinical Research Unit / Clinical Research and Innovation Office (CRU/ CRIO):
 - a) **Application Form**;
 - b) **Applicant's Curriculum Vitae (CV)**;
 - c) **Mentor(s)' CV**;
 - d) **Written proof of intent to collaborate from Collaborator(s) (i.e., email or letter of intent)** – applicable only if project requires collaborator(s) for technology development; and
 - e) **Supporting documents indicating continuation with NHG Health post-residency and support from Residency PD and HOD** – applicable for Residents only.
 - Letter of Support/Approval from HOD, including mention of Resident's intent to continue in the Department as an Associate Consultant post-residency exit and corresponding support from HOD; and
 - Letter of Support/Approval from Residency Programme Director (PD) and Residency Advisory Committee (RAC) to document that Resident's clinical training is on track for residency exit and will not be compromised by the CIPP award. Letter should be endorsed by DIO.
- 6.3. The Institution's CRU/ CRIO will set an **internal deadline** for the above submission and ensure that the documents reach the CIPP Secretariat by the stipulated deadline. Please check with your institutions for the deadline. Applications submitted after the call closing date and time will not be considered.
- 6.4. Templates for the application documents can be downloaded from <https://talentdev.gri.nhg.com.sg/> from the opening date of the Call for Applications.
- 6.5. Ethics applications are to be submitted to NHG Health DSRB, relevant IRBs or other regulatory bodies for review after award recommendation, if applicable and if not already done so. The CIPP Secretariat will coordinate with shortlisted applicants on these matters.
- 6.6. Please allow up to 4 months from the Call closing date for processing and review of applications.

¹ This refers to any new application for grant/programme administered or managed by NHG Health Group Research and Innovation (GRI), including the Centre for MedTech & Innovations (CMTi) HealthTech Grant, CMTi-National Health Innovation Centre (NHIC) Joint HealthTech Grant, NHG Health-LKCMedicine Clinician Scientist Preparatory Programme (CSPP), NHG Health-LKCMedicine Clinician Scientist Preparatory Programme Plus (CSPP+), NHG Health Clinician Scientist Fellowship (CSF), NHG Health-LKCMedicine Clinician Scientist Career Scheme (CSCS), NHG Health CMTi Clinician Innovator Preparatory Programme (CIPP), NHG Health CMTi Clinician Innovator Preparatory Programme Plus (CIPP+), and NHG Health CMTi Clinician Innovator Career Scheme (CICS).

7. APPLICATION EVALUATION CRITERIA

7.1. The applications will be reviewed based on the following criteria:

- a) Proposed project's aims, methodologies, budget, measurable outcomes, and significance of potential healthcare impact
- b) Applicant's level of interest and commitment in innovation;
- c) Applicant's immediate plans for innovation (e.g. ongoing projects, grant applications, etc.); and
- d) How innovation fits in with applicant's future career plans

8. CONTACT INFORMATION

For more information, please refer to <https://talentdev.gri.nhg.com.sg/> and/or contact the CIPP Secretariat:

Ms Adeline Chan

Clinician Scientist Development Office
Group Research and Innovation, NHG Health
Email: adeline.mx.chan@nhghealth.com.sg

Ms Valerie Yeo

Clinician Scientist Development Office
Group Research and Innovation, NHG Health
Email: valerie.mh.yeo@nhghealth.com.sg

NHG Health CMTi CIPP Training Curriculum

Awardees are required to complete a total of 6 courses. Core courses are compulsory.

For elective courses, awardees are required to complete one course of their choice from each category as well as an additional elective from any category of choice.

Awardees may also propose other relevant courses not listed in the table, with justification, and subject to CMTi Committee's approval.

Please refer to the respective course providers' website for the latest course fees.

Category	Type	Course Title	Course Provider	Duration	Course Fees (incl. GST) Accurate as at time of print
Basic Research Methodology	Core	1. Good Clinical Practice (GCP) ¹ – Online	Collaborative Institutional Training Initiative (CITI Program)	Self-directed	~\$200.00 ¹
	Elective	2. Research Preparatory and Study Design	NHG Health Group Research and Innovation	1 day	\$412.02
		3. Manuscript Writing and Poster Presentation		0.5 day	\$286.13
		4. Grant Writing and Management		1 day	\$526.47
		5. Introduction to Information Literacy in Evidence Care		1 day	\$572.25
		6. Questionnaire Design		1 day	\$618.03
		7. Prognostic Modelling		1 day	\$560.81
		8. Essential Principles of Biostatistics (Medical Statistics) in Healthcare Research	TTSH Clinical Research & Innovation Office (CRIO) ²	4 hours	\$327.00
		9. Introduction to Data Management and Analysis using Jamovi		4 hours	\$490.50
		10. Statistical Modelling using Jamovi: Practical Applications		4 hours	\$490.50
Health Technology (HealthTech) Innovation	Core	1. CMTi Springboard Programme	NHG Health CMTi	3 days ⁴	\$599.50
	Elective	2. Design Thinking for Healthcare Innovation: Focusing on Identifying and Inventing for Unmet Need	Singapore Biodesign ³	2 days	\$1,121.00
		3. Biodesign Bootcamp: Deep Dive Into Healthtech Innovation With An End In Mind ⁴		5 days	\$1,716.75
		4. An Introduction to Product Development & Quality Systems for Health and Medtech Innovations		1 day	\$560.50

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Health Technology (HealthTech) Innovation	Elective	5. Business Model Innovation for Healthcare Innovations	Singapore Biodesign ³	3 days	\$931.95
		6. Business Implementation for Health/Medtech: Project to Market Overview		2 days	\$1,121.00
		7. Health and MedTech Project Management +		1 day	\$708.00
		8. Medical Device Regulatory Management (Certificate Course) – Online	Asia Regulatory Professionals Association (ARPA)	Self-directed	~\$400.00
Intellectual Property (IP)	Elective	1. IP Management Course for Public Agencies	IPOS (IP Academy)	2 x ½ days	\$588.60
		2. Avoiding Copyright Infringement for Public Officers		2 x ½ days	\$588.60
		3. IP Management in R&D – Understanding the National IP Protocol (NIPP) and Master Research Collaboration Agreement (MRCA)		2 x ½ days	\$588.60
		4. Navigating IP Issues in R&D Collaborations		2 x ½ days	\$588.60
		5. How to Perform Prior Art Searches		1 day	\$523.20
		6. Generative AI in the Public Sector: Intellectual Property (IP) Considerations, Legal Risks and Governance Issues		½ day	\$294.30

¹ NHG Health researchers are recommended to complete [GCP for Clinical Trials with Investigational Drugs and Biologics \(ICH Focus\)](#). Awardees may access the course for free upon affiliation with “National Healthcare Group Pte Ltd” during course registration.

² For biostatistics course(s) offered by TTSH CRIO, awardees could email ttsh.crio.publication@nhghealth.com.sg for registration and latest course dates.

³ Fees for Singapore Biodesign (SB) courses are indicative based on FY2026 and after Skillsfuture subsidies available for Singapore Citizens <40 years old and SPRs. Registration for SB courses is through the [NUS L³ application portal](#).

⁴ Duration of 3 days refers to the in-person workshop only. The full CMTi Springboard Programme comprises pre-requisite online courses (~½ day), in-person workshop (3 days) and a post-workshop mentorship component (6 months).

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NHG Health CMTi Committee Members

Institution	Name	Position(s)
NHG Health Group Office	A/Prof Tey Hong Liang	Clinical Director, CMTi Senior Consultant, National Skin Centre
	Adj A/Prof Eric Wong	Group Chief Digital Health Officer
	Ms Shirley Heng	Group Chief Nurse
	Mr Wilfred Soon	Group Chief Information Officer
	A/Prof Jimmy Lee	Group Chief Research and Innovation Officer
Institute of Mental Health	A/Prof Christopher Cheok	Senior Consultant, Forensic Psychiatry
Khoo Teck Puat Hospital	Adj Asst Prof Bin Wern Hsien	Senior Consultant, Anaesthesia Assistant Chairman, Medical Board (Medical Manpower, Clinical Policies and Standards)
	Adj Asst Prof Clement Chia	Senior Consultant, General Surgery & Head of Breast Surgery Service
Tan Tock Seng Hospital	Adj A/Prof Loh Yong Joo	Head & Senior Consultant, Rehabilitation Medicine Director (Clinical Innovations), Clinical Research & Innovation Office (CRIO)
	Mr Khalid Anuar	Director, Allied Health
	Dr Ng Tat Ming	Principal Pharmacist (Specialist) Research and Innovation Lead, Division of Pharmacy
National Centre for Infectious Diseases	Adj A/Prof Shawn Vasoo	Executive Director & Senior Consultant
Woodlands Hospital	Adj Asst Prof Shum Cheuk Fan	Senior Consultant, Surgery (Urology Service)
NHG Polyclinics	Adj Asst Prof Valerie Teo	Family Physician-Senior Consultant Deputy Director, Clinical Services

GUIDELINES FOR Healthy Mentor-Mentee Relationship



Active engagement

- **Proactive:** Takes initiative in scheduling meet-ups, proposing agendas, updating on progress, follow-up on action plans
- **Seek feedback:** Regularly asks for feedback and identify areas of improvements
- **Engage:** Contributes to discussions, share your thoughts and ideas and update your mentor about the progress of your work and challenges you encounter

Commitment to learning, personal and professional development

- **Stay informed:** Keep up-to-date about current research and innovation trends in your field and to engage meaningfully in discussions with your mentor.
- **Develop skills:** Develop relevant skills, including research techniques and data analysis, to make the most of your mentor's guidance.
- **Set goals:** Collaborate with your mentor to set clear, realistic goals for your projects and career path.
- **Seek opportunities:** Seek out learning and networking opportunities and share your experiences with your mentor for feedback.
- **Develop independence:** Show initiative in developing independence as a researcher or innovator, demonstrating your commitment to growth.

