

ACP PROGRAMME FUNDING EDUCATION SUPPORT

APPLICATION REQUIREMENTS & EVALUATION CRITERIA

Objective:

To encourage development of health professions education programmes or initiatives which are sustainable and in line with the SingHealth Duke-NUS Education Masterplan. Health professions education (Frenk et al, 2010) focuses on the education of health professionals in order to achieve positive health outcomes for patients and populations.

General Information:

1. A health professions education programme / initiative (i.e. proposal) that clearly demonstrates alignment with 1 or more of the 5 SingHealth Duke-NUS Academic Medical Centre (AMC) Education Masterplan strategic thrusts (as listed below) is preferred:
 - (a) *Develop capacity and capability to achieve education excellence*
 - (b) *Build a community of collaborative practice-ready professionals through Interprofessional Practice and Education (IPE)*
 - (c) *Enhance education platforms by leveraging innovation and technologies*
 - (d) *Streamline and integrate training & development, structures and support services*
 - (e) *Foster wellness, resilience & nurture psychologically safe environments in healthcare*
2. Themed proposals have also been introduced for FY2022 – please see appendix 1

Criteria:

3. Proposals will be evaluated based on the following criteria.
 - (a) *Meets education needs*
 - *aligned with Education Masterplan, and / or*
 - *address need(s) on the ground*
 - (b) *Uses appropriate educational theory / theories and / or conceptual framework(s)*
 - (c) *Study design*
 - *Appropriate study design, methods, population, analysis*

- *Defined outcomes that are appropriate, relevant & impactful*

(d) Innovative, novel

(e) Appropriate use of technology (if relevant)

(f) Be transferrable and / or scalable (where appropriate) to other contexts within our AMC

(g) Sustainability

4. All application(s) must be completed using the prescribed ACP Programme Funding Application Form. Failure to comply with requirements and / or an incomplete application will result in disqualification from review and funding.
5. Each programme should be budgeted up to a maximum of S\$50,000 in quantum and can be funded for 1-3 years.
6. Each proposal should demonstrate alignment with goals of academic medicine, with focus on its impact to the SingHealth Duke-NUS AMC and the ACP.
7. Each proposal is expected to have clearly defined and measurable outcomes / deliverables.

There should not be any duplication or overlap with existing platforms / resources within SingHealth Duke-NUS Academic Medical Centre (e.g. resources from AMEI, SingHealth Academy, SingHealth Graduate Medical Education Office etc).

8. Applicants can approach SingHealth Duke-NUS Institute of Medical Simulation (SIMS) i3 Hub for the following services: Provision of suitable headsets for the project on a rental model basis and/or Project Management - please see appendix 2 for more details. **new*
9. It should be noted that in the budget request, purchase of overseas consultancy service delivered in Singapore will not be supported. This includes inviting of an overseas Educator to Singapore. Overseas travel expenses (e.g. overseas conference, seminars, etc.) are also not supported.
10. Publication cost will be supported with a cap of S\$2,000.
11. All submitted documents and data therein will be made available to any persons who are reasonably required to review, evaluate, recommend, and approve the award. They shall also subsequently be used to facilitate administration, talent management and development within the SingHealth Duke-NUS Academic Medical Centre.

NEW for FY2022

JOAM, in collaboration with Group Education, have introduced themes into the grant calls for FY2022.

Why are we doing this?

This is to improve alignment to the Education Masterplan. Better alignment will ensure that the grants we fund produce results that are strategically beneficial to our AMC. The 3 themes selected are *Technology-Enhanced Learning (TEL)*, *Faculty Development*, and *Interprofessional Education & Collaborative Practice (IPECP)*, which dovetail into the Masterplan.

What are these themes?

Theme 1: Technology-Enhanced Learning

Broadly defined as the application of information and communication technologies to teaching and learning (Kirkwood and Price 2014), TEL aims to support learning, improve the learner's experience, and maximise knowledge and skills acquisition. Examples include mobile apps, learning management systems, e-learning, Virtual and Augmented Reality, etc. Proposals should emphasize thoughtful, considered application of technology to education, based on well-established education theories or a conceptual framework. They should not merely be about purchase and usage of technology, and seeing whether learners like it or not (Kirkpatrick level 1). They should instead focus on measures of learning and beyond, clearly identifying what aspect(s) of teaching and learning will be enhanced, how will the enhancement(s) be achieved, and how these will be measured.

Theme 2: Faculty Development

Faculty development comprises activities aimed at helping faculty members become more effective as educators (Steinert 2008). Examples include workshops, peer coaching and mentoring, using communities of practice, reflection and so on. Education activities that help clinicians become better clinically (e.g. suturing workshop) would not be considered faculty development, however proposals for such activities will be considered under non-themed proposals as part of general health professions education (see below). Activities for patient / caregiver education would not be considered faculty development, nor would they fit into the remit of this grant call for health professions education, and should not be submitted as proposals.

Theme 3: Interprofessional Education & Collaborative Practice

We define IPECP using the 2010 WHO definitions. *Interprofessional education* is an experience that occurs when students from two or more professions learn about, from, and with each other. *Collaborative practice* happens when multiple health workers from different professional backgrounds work together with patients, families, carers and communities to deliver the highest quality of care

across settings. We are looking for proposals where the WHO ideals stated above are met.

How will this work?

We encourage all of you to submit themed grant proposals related to these 3 themes. Non-themed grant proposals will also be considered.

Whether themed or non-themed, we prefer proposals with appropriate conceptual framework(s), study designs, methodology, analysis and impactful outcomes, especially educational outcomes beyond personal satisfaction (Kirkpatrick Level 1) that are relevant to our AMC. Quantitative and qualitative studies, and mixed-methods studies are all welcome.

Proposals are also not limited to a single theme. Combining themes is perfectly acceptable – e.g. using technology to run a faculty development programme across multiple institutions within our AMC.

You should indicate on the form which theme(s) your proposal falls under, or N/A for non-themed grant proposals. Whether themed or non-themed, all proposals will be judged by the same criteria. Preference will be given to proposals which fulfil the themes.

NEW for FY2022

SIMS i3 Hub

The SingHealth Duke-NUS Institute of Medical Simulation (SIMS) i3 Hub is a dedicated space of 63 sqm that is equipped with a wide array of Extended Reality (XR) solutions and cutting-edge gaming equipment, offering healthcare professionals immersive and interactive learning experiences to hone their clinical skills and competencies in a risk-free environment.

The Hub aims to inspire collaborations and innovations in healthcare simulation by gathering like-minded healthcare professionals, while spurring the incubation of new ideas to advance patient safety.

The configuration of the i3 Hub is optimised to support the training of individuals and healthcare teams with different types of extended reality headsets such as Oculus Quest, HTC vive, Microsoft Hololens as well as gaming computers and tablets are available for training purposes.

Service Available

A. Provision of suitable headsets for the project on a rental model basis

PI who is interested to leverage on the immersive technologies could engage SIMS for discussion on the project and also the models and quantity required to prepare the grant application. SIMS can also advise on the amount of funding to request for headsets support.

The scope would include:

- Advice on type and model of various headsets & cost
- Loan of headsets when required by ACP till project completion or up to 2 years after receiving the grant
- Responsible for all headsets repairs (due to normal wear and tear)
- Loan of additional headsets beyond agreed number (based on availability)
- Post project support of headsets for training at an agreed rental model
- Provide Valued Added Services – ITQ Documents, Evaluation of Vendors – for a fee
- Provide Consultancy services like project management – for a fee

B. Project Management

Project Management services could be provided to PI if required.

Project management roles

- Discussion with SME & potential vendors on project requirements
- Calling for quotes from vendors
- Coordinate ITQ specifications & requirements between ACP & ALPS
- Management of SME requirements & selected vendor throughout the project
- Keeping track of timeline & project deliverables
- Coordinate with SME for project updates to JOAM & ACP
- Coordination with vendor & finance for payment milestones
- Arrangements of User Acceptance Test & records
- Setting up of training calendar at the end of the project to train faculty and users

For more information or discussion, you may contact the following:

- diana.fu.c.w@singhealthacademy.edu.sg
- sims@singhealth.com.sg

or visit the website:

<https://www.singhealthacademy.edu.sg/sims/facilities-resources/Pages/Simulation-Facilities-i3-Hub.aspx>

Rental Charges & Model

The rental cost is a one-time fee to SIMS for the headset. With this, the PI / SME / Project Team can use the headsets whenever required without any additional cost. The headsets will be loaned to the SME / Project Team when required till project completion or up to 2 years after receiving the grant.

The SME / Project Team is expected to reserve the headsets at least 1 week in advance and will be dependent on availability. SIMS will keep sufficient quantity of the headsets and will ensure the best to loan the headsets whenever required.

Below is the leasing cost for 3 of the commonly used headsets:

Headsets	Leasing Cost (per unit)	Description
Microsoft HoloLens 2	\$6,000	To augment virtual objects into the physical world and seen via the headset. Objects can be shown at 1:1 scale and interact with surfaces. The HoloLens has a plethora of optical sensors, with two on each side for peripheral “environment understanding” sensing, a main downward facing depth camera to pick up hand motions, and specialized speakers that simulate sound from anywhere in the room. The HoloLens also has several microphones, an HD camera, an ambient light sensor, and Microsoft’s custom “Holographic Processing Unit”.
HTC Vive Cosmo Elite	\$2,000	The HTC vive is a fully immersive virtual reality headset. Using two sensors in each corner of the room, the HTC Vive tracks and maps your movement around the room. The headset is connected to the power bank via cord, and the controllers are wireless. A computer that has the processing power to run virtual reality is also required. Note: If HTC vive is used, PI / SME / Project Team has to ensure a computer is available or include it in the grant budget.
Oculus Quest 2	\$1,500	A self-contained device with its own applications. Allows user to walk around in the physical world and have their movements reflected in the virtual world.

Project Management Cost

The proposed project management (PM) cost is 10% of the grant value or \$3,000 whichever is higher. Interested PI could engage the team to discuss and work out the final PM cost.