Australasian
Health Informatics
Fellowship Program

A guide for
host organisations

The Australasian College
of Health Informatics

Australasian College of Health Informatics

Who are we and what do we do?

We are the professional organisation for Digital Health and e-Health in the Asia-Pacific Region

Our credentialed Fellows and Members are regional, national and international thought leaders, experts and trusted advisers in Digital Health

We have over 120 members globally

Our training Fellowship Program is the first of it's kind in Australasia, with plans to expand internationally

Learn more about ACHI **www.achi.org.au**

"ACHI is committed to supporting and preparing Health Informatics research PhD students for leadership roles in the Health Informatics workforce.

Achieving ACHI Fellowship through our recently launched training program is an innovative and strategic approach to workforce planning in Australasia. "

Dr Chris Pearce
President Australasian College of Health Informatics

The experience – a snap shot

Student progress through the Fellowship Program is monitored by an ACHI Mentor and supported by the Fellowship Program Manager.

Fellowship Program

- Our training Fellowship Program is a fast track research training pathway for PhD students, who on completion will receive ACHI Fellow status

- ACHI will work with leading organisations, NGO's and government departments and agencies to design and create paid student work placements that will achieve real project or business outcomes for our partners

- Host organisations will work with the next generation of health informaticians

- Fellowship Program students will build a portfolio of work, develop leadership and business skills, will develop career networks and, and will join the esteemed group of ACHI Fellows on successful completion of the program

Student application and selection process

Applications will be accepted up to 12 months after a students PhD has been approved.

Student applications will formally open in November 2017 and will be open on an ongoing basis.

For more information about student eligibility and the selection criteria see here **http://www.achi.org.au/achi-fellowship-program/**

Work Placement

Host Organisation

Upon committing to the work placement program the host organisation will:

- Sign a Letter of Agreement with ACHI outlining the terms and conditions
- Pay ACHI a $2,500 ex GST placement fee per student
- Enter into an employment contract with the Fellowship Program candidate
- Create a job description and KPI's for the Fellowship Program candidate
- Arrange payment of the agreed $50,000 plus superannuation to the Fellowship Program candidate in equal payments over the duration of the work placement

Ongoing involvement

Once the Fellowship Program candidate commences the work placement the host agrees to:

- Offer a comprehensive workplace induction for the student
- Provide each student with a mentor with appropriate health informatics experience and expertise
- Create an environment for the student to develop their leadership capabilities
- Offer the student regular feedback and guidance relating to work tasks and on the job performance
- Allow Fellowship Program candidate time to engage in the ACHI Learning Program
- Engage with the ACHI Fellowship Program Manager as required

The host organisation can decide if they would like to maintain contact with the student once the work placement is completed.

Student selection

The matching of students and host organisations for work placement positions is a collaborative effort. We envisage two approaches to matching:

Option 1

ACHI presents a student's resume and thesis summary to the host organisation.

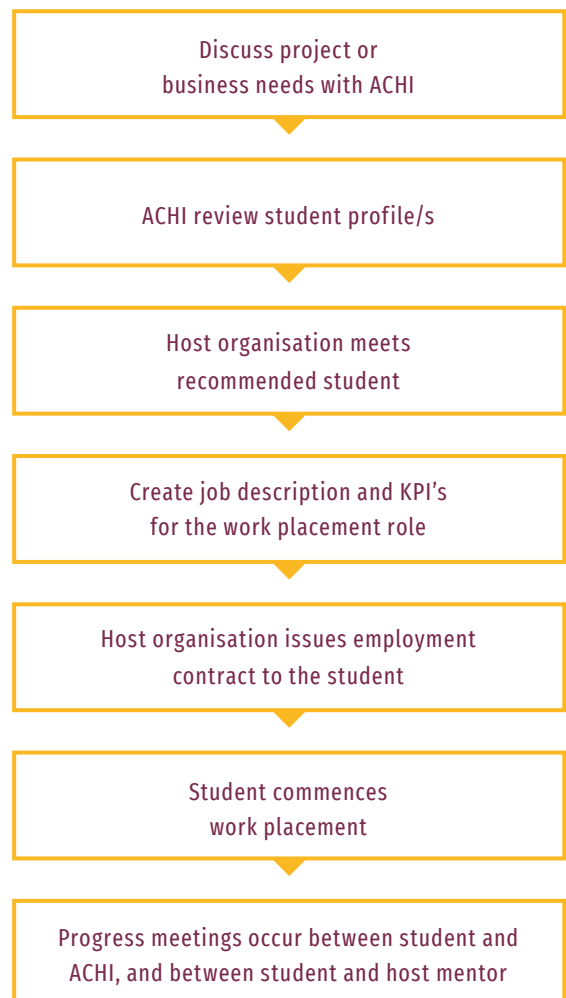The host can then, based on the students expertise, capability, and experience:

a. Create a new project based role

b. Create a role in an existing project team

Option 2

The host organisation will share current or potential projects with ACHI.

ACHI will then identify students with suitable experience or skill set.

Example

```
Discuss project or
business needs with ACHI
          │
ACHI review student profile/s
          │
Host organisation meets
recommended student
          │
Create job description and KPI's
for the work placement role
          │
Host organisation issues employment
contract to the student
          │
Student commences
work placement
          │
Progress meetings occur between student and
ACHI, and between student and host mentor
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Student Profile

Fellowship Program candidates may come from a variety of clinical and technical fields, and will take different career paths following completion of their Fellowship.

Student disciplines

Technical

Engineering
Software programming
Statistics
Mathematics
UX
Networks and Cloud Computing
Artificial intelligence

Health Services Management

Health administration
Clinical leadership and management
Financial issues in healthcare management
Reform and development of healthcare services
Health economics
Indigenous health services
Ethics
Patient safety and quality

Clinical

Nursing and Midwifery
Psychology and Psychiatry
Public health education and Promotion
Pharmacy
Biomedical science
Paramedic and Emergency
Clinical medicine and Science
Translational medicine

Faculties

Humanities
Law
Medicine, Nursing and Allied health
Business
Economics
Education
Engineering
Information technology
Librarian studies
Computer Science
Psychology

PhD research domains could include

Consumer informatics
Clinical decision support
Evidence based medicine
Personalised medicine
Patient safety
Health analytics
Public health surveillance
Software standards
Electronic records
Telehealth

Specialised areas of expertise

Machine learning
Predictive algorithms
Data mining
Control trials
Modelling
Experimental design
Health technology assessment
Action research

Baseline candidate skills

Ability to critically appraise research
Strong report writing and communication skills – written, oral and digital
Discipline knowledge

Designing work placement roles

ACHI will work closely with you to create a job description and outline KPI's based on the needs of your organisation and the skill set of the student.

Students who have expressed interest in the Fellowship Program

David

PHD SUBMISSION DATE: End of 2017

UNIVERSITY: Macquarie University

QUALIFICATIONS:

- Deakin University, Masters of Business Administration – 2006
- Deakin University, Bachelor of Arts, Sociology, and Psychology – 2000

"The work placement component of the Fellowship Program is an ideal way for me to broaden my work experience outside of a university environment."

EXPERIENCE:

Full time academic

PHD TOPIC:

David's research examines the risk of over-reliance on decision support systems in healthcare and how reliance is affected by task complexity, cognitive load and information seeking.

WORK PLACEMENT: Available in 2019 (one year post doctoral contract secured for 2018)

INTERESTS: Human factors, Systems safety

Georgie

PHD SUBMISSION DATE: January 2020

UNIVERSITY: Macquarie University

QUALIFICATIONS:

- Macquarie University, PhD - 2019
- Macquarie University, Masters of Research - 2015
- University of NSW, Masters of Biomedical Engineering - 2006
- University of NSW, Bachelor of Computer Engineering - 2005

EXPERIENCE:

Senior Principal Technical Consultant - Oracle (3 years)

Senior Analyst – Brain Resource Ltd (4 years)

Analyst – Accenture (1 year)

PHD TOPIC:

Georgie's research is focused on the implementation of predictive models in clinical workflow, including understanding clinician attitudes and barriers to acceptance of such models.

WORK PLACEMENT: Available in 2020

INTERESTS: Digital strategy and policy

"The ACHI Fellowship Program appeals to me because I have a lot of experience working on big projects across several industries and this would be a way to crystalise my experience into the right role."

Tim

PHD COMMENCEMENT DATE: TBC – in 2018

UNIVERSITY: University of Melbourne

QUALIFICATIONS:

- University of Tasmania, Masters Degree (Public Health) - 2017
- Queensland University of Technology, Bachelor of Arts (Nutrition) – 2015
- Swinburne University of Technology, Bachelor of Social Science – 2015

EXPERIENCE:

Full time academic

PHD TOPIC:

Patient driven models of care

WORK PLACEMENT: Available in 2019

INTERESTS: Public health, mental health

"The ACHI Fellowship Program appeals to me because I am looking for an opportunity to get real experience in the health care industry. I want to apply my research and theoretical understanding in a health care work place environment."

Supplementary Learning

The supplementary learning program is designed to facilitate discussion of current trends and best practice in health informatics and leadership.

Group learning scenarios will also encourage peer support amongst the Fellowship Program students, who will all progress through their Health Informatics careers together.

Topics will include:

- Health Informatics; foundations of Health Informatics, global case studies and trends, governance
- Leadership; negotiation skills, communication skills, leadership in the Health Informatics community

The learning program will include the following components:

Virtual Master Classes

ACHI will invite local and global health informatics experts and ACHI Fellows to deliver one-hour virtual Master Classes. We envisage there will be three masterclass sessions per year.

ACHI Journal Clubs

Students will participate in regular journal clubs that are facilitated by the ACHI Student Committee. Students will have an opportunity to present their PhD as part of these working sessions.

Annual Workshop

Students will attend an annual face to face workshop. They will present and share their insights from their PhD and work placement experience, and will have the opportunity to engage with Health Informatic experts and ACHI Fellows.

Work Placement Report

Students will be required to write and present a comprehensive report for each work placement which will be reviewed by ACHI.

Virtual Master Class guests

Farah Magrabi (FACHI) – Insights on patient safety

Farah is an Associate Professor at the Centre for Health Informatics within the Australian Institute of Health Innovation. She leads the Centre's research program on Patient Safety Informatics, focused on the safe and effective use of information technology.

Farah has a background in Electrical and Biomedical Engineering and is passionate about ensuring the safety of information technology in healthcare through good design and the appropriate application of technology.

Terry Hannan (FACHI) – Global health and health information technology

Terry is a well-respected Clinical Associate Professor, Physician and past President of the Australasia College of Health Informatics (ACHI) who has over thirty years international and national experience in Health Informatics and e-Health.

He is a Visiting Faculty member at the Centre for Health Innovation at Macquarie University, Sydney. He is a Moderator on the GHDonline website (www.ghdonline.org) and a member of the OpenMRS Open Source EMR project managed out of Indiana University. He was a cofounder of the EMR project in Eldoret Kenya that led to the development of AMPATH [Academic Model Providing Access to Healthcare] and OpenMRS (www.OpenMRS.org)

Terry is also an inaugural member (2017) of the International Academy of Health Sciences Informatics.

Professor Teng Liaw (FACHI) – Health Informatics Leadership in Australasia

Teng is a clinician researcher with expertise in health informatics and systems research. He educates medical students and GP Registrars at the UNSW Sydney and SW Sydney Local Health District General Practice Unit based at Fairfield Hospital.

Teng co-founded the WHO Collaborating Centre (eHealth) and Yunus Social Business Health Hub at UNSW. He is a Foundation Fellow and Past President (2005-7) of the Australasian College of Health Informatics and Fellow of the American College of Medical Informatics. He was recently elected to the inaugural class of 100 of the International Academy of Health Sciences Informatics.

Partners

We are currently developing partnerships with suitable organisations who will provide paid work placements for our Fellowship Program participants.

- Are you a leader in your field?
- Are health informatics projects a key part of your business?
- Do you have a strategic talent management strategy?
- Are you interested in working with the rising stars of the health informatics workforce?

If the answer is YES to any of the above questions we would like to talk to you.

"The combination of real world experience and academic rigour, gained under the supervision of health informatics experts, is what will set Fellows apart from their peers.

The ACHI Fellowship that students will receive on completion of the Program will very soon become the minimum requirement for all senior health informatics professionals. "

Professor Enrico Coiera MB BS Syd, PhD UNSW, FACMI, FACHI

Director, Centre for Health Informatics,
Australian Institute of Health Innovation,
Macquarie University

Are you interested in offering paid work placements?

For more information about ACHI
visit achi.org.au

Contact the Fellowship Program Manager to discuss further.

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