

FACULTY OF HEALTH AND ENVIRONMENTAL SCIENCES (FHES) Summer Research Awards 2021/2022

(hereinafter to be referred as SummerStudentship22)

- You are strongly encouraged to contact the project lead for projects you are interested in before applying. It will help you to find out more about the project and what it involves.
- Before completing this application form, please read through the “GUIDELINES FOR SummerStudentship22” on page 4 of the application form.

If interested in any of the projects below (*you can apply for up to 3 projects*), kindly email completed form to lourdes.mascarenhas@aut.ac.nz by **12pm Wednesday 06 Oct 2021**

Summer Projects- 2021/2022

School of Science (HA)

Project #	Project lead	Project title	Email
1	Taniela Lolohea	Atmospheric plasma “plants” – Exploring plasma deposition onto seedlings towards improved growth of radish plant	taniela.lolohea@aut.ac.nz
2	Jack Chen	Stimuli-responsive nanocontainers for targeted drug delivery	jack.chen@aut.ac.nz
3	Cassandra Fleming	The Design and Synthesis of Two-Photon Excitable Fluorescent Histone Deacetylase Inhibitors	cassandra.fleming@aut.ac.nz
4	Yan Li	In Silicon Screening of MRP2 inhibitors using AutoDock Vina Program	yan.li@aut.ac.nz
5	Jingjing Zhang	Do animal movements follow general mathematic rules? An evaluation with an individual-based approach	jingjing.zhang@aut.ac.nz
6	Rebecca Jarvis	Creating a foundational database to support the AUT Living Laboratories research project	rebecca.jarvis@aut.ac.nz
7	Marcus Jones	Development of a fluorescence correlation spectroscopy instrument in support of a novel and adaptable biosensing technology for scarce analyte detection	marcus.jones@aut.ac.nz
8	Bradley Case	Developing proof-of-concept workflows using the Google Earth Engine image analysis platform to support remote sensing research	bradley.case@aut.ac.nz
9	Dong-Xu Liu	CRISPR/Cas9-based the SHON gene knockout in breast cancer cell lines	dong-xu.liu@aut.ac.nz
10	Jun Lu	Protein extraction from blade of seaweed <i>Undaria pinnatifida</i> , industrial method development and product composition analysis	jun.lu@aut.ac.nz

School of Clinical Sciences (HH)

Project #	Project lead	Project title	Email
11	Claire Gear & Zoe Tipa	Strengthening integrated approaches to family violence service delivery: Whakawhitiwhiti Kōrero	claire.gear@aut.ac.nz zoe.tipa@aut.ac.nz
12	Nico Magni	The effectiveness of a counterforce brace on the stiffness of muscles originating from the common extensor tendon during gripping tasks in healthy participants: A biomechanical and reliability study.	nico.magni@aut.ac.nz
13	Kate Charlesworth	User requirements for occupation-based upper-limb rehabilitation robotics.	kate.charlesworth@aut.ac.nz
14	Paul Ripley	Pacific pedagogy for success in health professional education: an integrative literature review	paul.ripley@aut.ac.nz
15	Sarah Stewart	Podiatry needs and service provision for people with arthritis: a retrospective review of a rheumatology podiatry clinic	sarah.stewart@aut.ac.nz WITHDRAWN – NO LONGER AVAILABLE
16	Robin Cronin	Maternal awareness of fetal movements during late pregnancy	robin.cronin@aut.ac.nz
17	Kay Shannon	Glory days: Participant experiences of a sports-based reminiscence group	kay.shannon@aut.ac.nz
18	Mandie Foster	Child/youth participation, engagement, initiatives, and child/youth consumer groups represented within law and tertiary healthcare settings in New Zealand	mandie.foster@aut.ac.nz
19	Nusratnaaz Shaikh	Telerehabilitation for people with mTBI: a co-design approach	nusrat.shaikh@aut.ac.nz
20	Elizabeth Day	The use of outcomes measures for effective psychotherapy: A scoping project for researching psychotherapy practice in the AIH Clinic	elizabeth.day@aut.ac.nz
21	Hannah Wyatt	Function related Movement Following Neck of Femur (Hip) Fracture	hannah.wyatt@aut.ac.nz
22	Rachel Macdiarmid	How educational mechanisms progress Graduate Entry Nurses to advanced practice roles (Nurse Practitioner ¹ & Designated Nurse Prescriber ²) in Australasia	rachel.macdiarmid@aut.ac.nz
23	Richard Ellis	Understanding musculoskeletal physiotherapy practice in Aotearoa New Zealand	richard.ellis@aut.ac.nz

School of Sport and Recreation (HS)

Project #	Project lead	Project title	Email
24	Sierra Keung	Enhancing the study of inclusive leadership in governance through mātauranga Māori	sierra.keung@aut.ac.nz
25	Kelly Sheerin	A survey of women's experiences of running during pregnancy.	kelly.sheerin@aut.ac.nz
26	Aaron Uthoff	Quantifying deceleration demands in elite netball athletes using a novel in-shoe inertial sensor	aaron.uthoff@aut.ac.nz
27	Caryn Zinn	Development of a modified NOVA food classification system database.	caryn.zinn@aut.ac.nz
28	Kath Godber	COVID-19 lockdown impacts on lifestyle, livelihood, learning, and active lives: Higher Education students' perspectives.	kath.godber@aut.ac.nz
29	Melody Johnston	Engaging Women and Girls in Community Sport Clubs	melody.johnston@aut.ac.nz
30	Matthew Cross	The reliability and validity of a portable ultrasound unit to assess body-composition via skinfolds.	matthew.cross@aut.ac.nz

School of Public Health and Interdisciplinary Studies (SPHIS)

Project #	Project lead	Project title	Email
31	Alayne Mikaere-Hall	Mai Te Puna Whakaaro ki te Pūaha o te Arawai	alayne.hall@aut.ac.nz
32	Kay Hammond	Mapping how faculty manage emotions during the peer review process.	kay.hammond@aut.ac.nz
33	Caroline Stretton	Understanding jobs, roles and relationships of the case manager in Aotearoa New Zealand: A scoping review	caroline.stretton@aut.ac.nz
34	Christian Thoma	Autonomic and central nervous system response to different aspects of Bhramari breathing technique	christian.thoma@aut.ac.nz