Summer Research Fellowship (SRF) & Overseas Research Fellowship (ORF) Schemes 2021-22
RUNDOWN

1. Objectives
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Objectives
Objectives

- Enable students to attempt specific research topics that cater to their individual interest and ability
- Encourage students to take initiative and play a more active role in their own learning
- Provide a platform for students to integrate theory and practice, and to understand limitations of their current knowledge
- Engage students in research of their major science discipline
Requirements and Application Procedures
<table>
<thead>
<tr>
<th></th>
<th>SRF</th>
<th>ORF</th>
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<tbody>
<tr>
<td><strong>Location</strong></td>
<td>Within the Science Departments/School or the School of Biomedical Sciences</td>
<td>Overseas institutions</td>
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<tr>
<td><strong>Subsidy</strong></td>
<td>A stipend of HK$16,000*</td>
<td>A stipend of HK$16,000* plus airfare # (on a reimbursement basis; 80% of the actual airfare and capped at HK$12,000 in maximum)</td>
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</tbody>
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**Remarks:**

* Successful applicants are NOT allowed to receive sponsorship from other funding sources for the same research project.

# Due to COVID-19 pandemic, there are uncertainties about border closures, flight restrictions and mandatory quarantine requirements in different countries. ORF applicants may change to conduct summer research remotely with their overseas supervisor upon faculty’s approval. In such cases, applicants will not be entitled for the airfare reimbursement.
**SRF vs ORF (cont.)**

<table>
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<th>ORF</th>
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<td>Requirements</td>
<td>1. Complete the research project (duration is at least 2 months) under the supervision of research supervisors (both internal and external supervisors are required for ORF Scheme)</td>
<td>2. Submit a research synopsis of 500 – 1,000 words on your project, a short passage of programme sharing, and a poster in September 2022</td>
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<td>2. Submit a research synopsis of 500 – 1,000 words on your project, a short passage of programme sharing, and a poster in September 2022</td>
<td>3. Participate in Poster Presentation in October 2022</td>
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<td>3. Participate in Poster Presentation in October 2022</td>
<td>4. Attend Research Colloquium in October/November 2022; five to six best poster presenters will give an oral presentation in this Research Colloquium</td>
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Eligibility

• Non-final year BSc, BSc&MRes, BSc(ActuarSc) and BASc(AppliedAI) students
• Recommendation of a prospective supervisor
• To better prepare students for conducting research, students who participated or will participate in SRF/ORF Scheme must take and pass SCNC3111 Frontiers of science honours seminar course. Course description can be found at https://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Course&course_code=SCNC3111. Students who do not take the course will NOT (i) receive the stipend and (ii) have the participation of fellowship recorded in their academic transcripts.
Eligibility (cont.)

• Given the limited quotas and to allow more students to have this valuable research learning experience, past participants of SRF/ORF Scheme CANNOT apply for the same fellowship scheme which they had previously participated.

(Exception: Students pre-accepted to the ‘Young Scientist Scheme (YSS)’ have been guaranteed of a place to participate in the SRF Scheme in the summer after the completion of their first year of study, and have further opportunities to participate in other undergraduate research schemes (such as another SRF or ORF) in subsequent years subject to satisfactory academic performance.)
1. Search for your interest area

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<th>Examples of topics in past years:</th>
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<tr>
<td>• Territorial analysis for ratemaking</td>
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<td>• Investigation of serine sensitivity in Salmonella enterica</td>
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<td>• Trend prediction of global temperature changed by analyzing satellite data</td>
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<td>• Exotic option pricing under regime-switching model</td>
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<td>• Crystallization of X-ray structural elucidation of a disease-causing small peptide</td>
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<td>• The laser cooling and Bose – Einstein condensation in ultra cold atoms</td>
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<tr>
<td>• Molecular cloning of claudin-11 gene in Oryzias melastigma</td>
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</table>

More information about:

1. Previous SRF/ORF participants’ research topics and supervisors –
   https://www.scifac.hku.hk/f/page/4811/14758/SRF%20List_11252021.pdf or

2. Research opportunities from Science School/Departments –
   https://www.scifac.hku.hk/f/page/4811/5634/3.1.16.2.2%20Research%20Opportunities.pdf
2. Consult the teacher(s) in your interest field about your research plan
   • approach the teacher(s) directly
   • through your home Departments/Schools or teachers
   • read their research publications beforehand

3. Fill in the online application form:
   https://webapp.science.hku.hk/intranet/servlet/OnlineFormUG?frmid=SF401
4. Submit your application form together with the following documents through the online application system on or before
   February 24, 2022 (Thursday) (for both SRF and ORF Schemes)/April 12, 2022 (Tuesday) (for ORF Scheme only):
   • a recommendation letter from your prospective supervisor; and
   • a research proposal (not more than 500 words on ONE A4-size paper)

IMPORTANT NOTE:
ORF Scheme applicants are STRONGLY encouraged to submit the completed applications by the first application
deadline, i.e. February 24, 2022 (Thursday), as the application results will be announced by late April 2022 for your
immediate arrangement for visa applications, etc. Applications submitted between February 25, 2022 and April 12,
2022 will be reviewed after the second application deadline, i.e. April 13, 2022, and the application results will be
announced in late May or early June 2022; applicants concerned have to consider if such timeframe can meet with the
processing time of visa, accommodation applications, etc
Online Application System for SRF & ORF

You may submit your application by using the following devices:
Recommended Contents of Research Proposal

- Title
- Abstract
- Introduction (Background information)
- Research Design
- Significance
- References
In the proposal, we want to know ...

• What is your specific research question(s)?
• How your research relates to other(s) published work?
• How you will answer those questions or plug the knowledge gap(s)?
• How are you prepared to complete the project in time?
• How you plan to spend the fellowship?
Selection Criteria

- Quality of the research proposal
- Recommendation of the prospective supervisor
- Interview performance
- Academic merits
Recognition

• Recorded in the academic transcript
• Certificate of completion
• Awards:
  – Best Poster Presenters (for Poster Presentation)
    – 5 to 6 winners
  – Best Colloquium Presenter (for Research Colloquium)
    – 1 winner
University Research Fellowship Programme • (URFP)

- Students who have excellent academic performance (in the 90th percentile of top students in a study programme or attain a CGPA of 3.50 or above) and plan to conduct final year project or directed studies after having a summer research internship can consider to apply for the URFP.

- The URFP is a prestigious programme organized at University level aimed at enhancing students’ learning experience and nurturing the next generation of researchers/scholars.

- Students enrolled in the URFP are required to undertake a research study (final year project or directed studies).

- Summer research internship may form an essential part of such a research study. Students may receive a research internship award of up to HK$40,000 for research internship overseas or up to HK$15,000 for research internship in Hong Kong or the Mainland at normal times.

- Application details and deadline: TO BE ANNOUNCED IN DUE COURSE
Remarks:

Students who apply for the URFP need not apply for the SRF/ORF. They will be considered for the SRF/ORF if their URFP applications are not successful.

@ When the COVID-19 outbreak pertains and imposes restrictions on international travel, the internships are generally expected to take place either in Hong Kong or through remote supervision from overseas host supervisors. Overseas internship awardees are required to seek alternative arrangements in order to meet the said requirements. The value of each research internship award will be capped at a maximum of HK$10,000.
Natalie Hung

BSc Year 4 Student
Major in Biochemistry; Minor in Korean Studies
SRF Participant in 2019-20

* Student Experiential Learning Ambassador in 2021-22
Suying Liu

BSc Year 4 Student
Major in Mathematics & Physics
Virtual ORF Participant in 2020-21
Virtual Opportunities

- Virtual ORF
- Virtual Internship (especially with local, mainland and overseas industry)
- Virtual project with overseas students

Be proactive, positive and seek help from teachers
Q & A Session
Student Experiential Learning Ambassadors 2021-22
Want to Enrich Your University Life with Experiential Learning?

Meet Our Student EL Ambassadors!

Leung Ho Wa (Simon)
Year 2
lhwa@connect.hku.hk
Major in Biology
- Member of summer teaching programme with students in Myanmar during summer of 2020 (virtual)
- Ecology field trip visiting mangrove swamps and taking measurements in Hong Kong helicopters
- Processing Mexican coral reef samples and assisting in the analysis of the correlation between the nitrogen isotopic ratio and tourism in the area

Vismaya Pillai
Year 3
vmaya23@connect.hku.hk
Major in Physics (Specializing in Astrophysics) Minor in Computer Science
- GRF in identifying terminal selectors and genetic markers in C.elegans neurons with Dr. Chau Cho Leung (virtual)
- Astrophysics research involving AGN in HST-GLASH cluster galaxies and color gradients in elliptical galaxies (virtual)
- Globalink Summer Research Internship (UCL-ER) with Dr. Christine Wilson at McMaster University regarding dust and gas in VERTICO galaxies (virtual)

Hung Ling Sum (Natalie)
Year 4
hyun2nx@connect.hku.hk
Major in Biochemistry Minor in Korean Studies
- 2020 SRF: Investigating the impact of depression on neuroinflammation in Alzheimer’s disease using the cofilin-actin-induced depression model with Dr. Raymond Chuen-Chung CHANG
- 2021-2022 Final Year Project: Investigating the impact of depression on Alzheimer’s Disease using the Unpredictable Chronic Mild Stress (UCMS) model with Dr. Raymond Chuen-Chung CHANG

Lai Pui Yi (Wendy)
Year 4
wendy-lai@connect.hku.hk
Major in Actuarial Science Minor in Economics
- HKU Worldwide Undergraduate Student Exchange Programme (HKGWUPE) University of Waterloo, Canada
- Actuarial Science Internship, Prudential Hong Kong Ltd.
- China’s Global Strategy and Agenda Study Program, Peking University, Beijing

Lin Yen Hsu (Zack)
Year 3
u3566717@connect.hku.hk
Major in Chemistry (Intensive) Minor in Computer Science
- 2020 SRF: Luminescent Calix[4]arene-based Alkylammonium(I) Phosphine Complexes with Professor Yam, Vivian Wing Wah
- 2021 SRF: Supramolecular Assembly of Carbazole-Containing Platinum(II) Complexes with Professor Yam, Vivian Wing Wah

Li Kau Chun (Harper)
Year 2
u3677807@connect.hku.hk
Major in Chemistry Minor in Computer Science
- 2021 SRF: Design, Synthesis, Photophysical and Electrochemical Study of Cysteinylated Alkylglycine(I) Complexes with Professor Yam, Vivian Wing Wah
Thank You

Special thanks to slidesgo for providing free PowerPoint template
https://slidesgo.com