



Junior Researcher Mentoring Programme 2024 Brief

Objectives

- Deepen students' understanding of a chosen research topic;
- Nurture students' analytical and research skills;
- Introduce our undergraduate programmes to students and help them make informed university programme choices; and
- Connect them with our staff to have a better understanding of the study life at PolyU.

Eligibility

- S.4 & S.5 and Grade 10 & Grade 11 / Year 11 & Year 12 students;
- Having a strong interest in the relevant discipline;
- Possessing a good command of both written and spoken English; and
- Demonstrating a strong commitment to fulfilling the tasks assigned.

Duration

March to August 2024

Programme Fee

Free of charge

Recognition

- Certificate of Participation;
- Chance to present at academic conference in Hong Kong or overseas; and
- Favourable consideration to outstanding students for admission to PolyU.

Research Projects

Please refer to Page 3-4 and Programme webpage (<https://www.polyu.edu.hk/geo/jrmp>)

Notes to Schools

- Applicants should be nominated by their Principal.
- Principals are requested to fill in and return the recommendation form (Annex 3) for students' online submission **by 31 January 2024**.



Notes to Students

- Each student can apply for **ONE** research project only.
- Only applications supported by Principals will be considered.
- Shortlisted students will be invited to attend an online selection interview.
- Selected students are required to participate in all of the activities, including the orientation briefing, meetings with the mentor(s), completion of assigned research work, submission of a reflective journal, presentation, and the closing ceremony cum experience sharing session. No participation certificate will be presented to the student who fails to fulfill any one of the requirements.

Other Details

- Participating students will be covered by a designated group personal accident insurance plan purchased by PolyU.
- EDB's guidelines on adverse weather and outdoor activity arrangements will be strictly adhered to.

Key Dates (Tentative)

Date / Period	Action
31 January 2024	Application deadline
Mid to Late February 2024	Online selection interview
Early March 2024	Result notification
23 March 2024 (am)	Orientation briefing & first mentor-mentee meeting
March to August 2024	Research programme
Late August 2024	Closing ceremony cum experience sharing session

Application Procedures

1. To fill in an application form (Annex 2);
2. To obtain Principal's recommendation (Annex 3);
3. To prepare the supporting documents (scanned copies of school examination reports for the last **TWO** terms, award certificates, etc); and
4. Upload all required documents to the online system (<https://www.polyu.edu.hk/pfs2/index.php/557219>) **by 31 January 2024.**

For the Principal's recommendation to be submitted by School directly:

School teacher/ counsellor will receive an email automatically if the student has nominated you as the referee. Please submit the Principal's recommendation to local.study@polyu.edu.hk **by 5 February 2024.**

Enquiries

For enquiries, please email us (local.study@polyu.edu.hk) or call us (3400 8103/ 3400 8302).

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List of Research Projects

School/ Department	Code	Research Topic
Department of Management and Marketing	JRMP2024_01	Dealing with complexity: An investigation from clinical psychology and neuroscience
Department of Building Environment and Energy Engineering	JRMP2024_02	Life-cycle analysis of zero-energy buildings
Department of Land Surveying and Geo-Informatics	JRMP2024_03	Augmenting weather prediction using satellite remote sensing data
Department of Aeronautical and Aviation Engineering	JRMP2024_04	Simulate, build, test and fly a communication CubeSat
Department of Biomedical Engineering	JRMP2024_05	Evaluation of paraspinal muscles using 3D ultrasound
Department of Computing	JRMP2024_06	Enabling interactive metaverse applications with neural rendering
Department of Mechanical Engineering	JRMP2024_07	Design and development of a fuel cell powered toy car
Department of Mechanical Engineering	JRMP2024_08	Development of a self-driving robot for use in an indoor environment
Department of Applied Social Sciences	JRMP2024_09	Appraisals of gender nonconformity
Department of Applied Social Sciences	JRMP2024_10	Newly arrived adolescent immigrants from mainland China to Hong Kong: How they can thrive
Department of Applied Social Sciences	JRMP2024_11	Parental psychological control and developmental outcomes among Chinese adolescents in Hong Kong
Department of Rehabilitation Sciences	JRMP2024_12	Sluggish cognitive tempo symptoms in young people
School of Nursing	JRMP2024_13	An edge AI-based AR system for hand hygiene training in undergraduates of health-related disciplines
School of Nursing	JRMP2024_14	Collaborative effort to establish best practices of programme articulation and academic advising to senior-year admission students among UGC-funded universities
School of Nursing	JRMP2024_15	Digital preventive healthcare for people with physical disabilities: A research programme

School of Nursing	JRMP2024_16	Exploring the help-seeking behaviour and online health information-seeking behaviour of women with domestic violence experiences in Hong Kong
School of Nursing	JRMP2024_17	Mental health and resilience in young people
Department of English and Communication	JRMP2024_18	'If it's natural, it must be good': An exploration of naturalness in Hong Kong and online in a global context
Department of English and Communication	JRMP2024_19	Teachers' vulnerability in the era of self-branding on social media: Insights from Hong Kong
Department of English and Communication	JRMP2024_20	Translating research into practice: Communicating about cancer with migrant workers in Hong Kong
Department of Applied Biology and Chemical Technology	JRMP2024_21	Assessing microbial contamination in food products and associated packaging
Department of Applied Biology and Chemical Technology	JRMP2024_22	Electrocatalytic hydrogen production: The design of anodic catalysts and reactions
Department of Applied Mathematics	JRMP2024_23	Modelling of the co-circulation of COVID-19 and influenza and its impact on public health
Department of Applied Physics	JRMP2024_24	Design of IoT systems
School of Design	JRMP2024_25	Modular parametric components for mechanical flowers
School of Fashion and Textiles	JRMP2024_26	Activewear design in the digital age
School of Fashion and Textiles	JRMP2024_27	Application of nanotechnology to textiles for developing functional materials
School of Hotel and Tourism Management	JRMP2024_28	A generational analysis of Chinese outbound travellers' travel information search strategies
School of Hotel and Tourism Management	JRMP2024_29	Adoption of environmental technologies in hotels
School of Hotel and Tourism Management	JRMP2024_30	Exploring the attitudes and behaviours of elderly patrons towards self-service technologies in restaurants: A case study of elderly restaurant customers in Hong Kong
School of Hotel and Tourism Management	JRMP2024_31	Food waste sustainability-oriented innovation for small- and medium-sized restaurant businesses

POLYU Junior Researcher Mentoring Programme 2024



When

March to August 2024

What



Orientation
Briefing



PolyU's
Research Project



Project
Presentation



Closing
Ceremony

Who

S.4 & S.5 students, or equivalent
(Nominated by Principals)

What will you get



Certificate of Participation



Chance to present at academic
conference in Hong Kong or overseas



Favourable consideration to outstanding
students for admission to PolyU

Application Deadline

31 January 2024

Sign Up Now!



Enquiries

☎ 3400 8103 / 3400 8302 ✉ local.study@polyu.edu.hk

🌐 www.polyu.edu.hk/geo/jrmp