

社團法人中華民國國立臺灣師範大學物理系系友會

大學部專題研究獎學金獎助辦法

109 年 06 月 05 日第五屆臨時理監事會議修正後通過

緣起：

廖錦衡先生與夫人蘇俐輝女士是臺師大物理學系(以下簡稱母系)55 級優秀系友，在母系就學期間成績名列前茅，深獲系上老師肯定。1968 年賢伉儷負笈美國東北大學取得物理碩士學位，之後廖錦衡先生更成為母系第一位進入耶魯大學(Yale School of Engineering and Applied Science)的研究生，專攻磁性材料學 (Magnetoexchange Resonance in Ferromagnetic Metals)，取得博士學位後任職於 Rockwell International、Union Carbide 等公司，仍心繫身受栽培的臺灣，長期默默付出，例如 80 年代龍潭中山科學院研發雷射技術，廖錦衡先生竭力為臺灣爭取晶體成長與設備的技術轉移。蘇俐輝女士在 Beckman Laser Institute，University of California Irvine 參與雷射醫學工程研究達 40 年後退休，發願捐款在母系成立獎學金以紀念夫君廖錦衡先生，希望能夠激勵學弟妹的學習，也促進本系良好的學術風氣。

一、為了表彰及紀念母系 55 級優秀學長廖錦衡先生在學術上的成就(詳見以上簡述)，並提振母系大學部學生投入專題研究，形成良好的學術研究風氣，特設立專題研究獎學金（以下簡稱本獎學金）。

二、經費來源：本獎學金的經費來源為「社團法人中華民國國立臺灣師範大學物理系系友會」之系友指定捐款。本獎學金由母系 55 級廖錦衡及蘇俐輝系友發起捐贈，鼓勵各屆系友響應，以充實本獎學金來源。

三、獎助方式：

- (一) 專題研究計畫獎助：鼓勵大學部學生加入母系研究團隊，詳盡規劃、進行專題研究。
- (二) 優秀專題學生獎助：鼓勵研究表現優異之大學部專題學生。

四、申請資格：母系學士生，符合以下情形者。

- (一) 申請及受補助期間需為母系已註冊之在學學生（在校生）。
- (二) 專題指導教授必須為本系專任、兼任或合聘教師。
- (三) 申請者之前一學期在校學業平均成績 (GPA) 3.0（含）以上，申請者其他綜合表現亦納入考量。
- (四) 須有指導教授推薦及研究計畫相關資料。

五、獎助金額：本獎學金每年獎助總金額以新臺幣 10 萬元為限，依以下原則核予獎助。

- (一) 每件專題研究計畫獎助金額為新臺幣 4 仟元整。
- (二) 每位優秀專題學生獎助金額為新臺幣 1 萬元整。
- (三) 考量每學期申請之計畫內容、學生人數等情況，於總獎助金額上限不變之條件下，得酌予調整獲獎件數，並搭配各指導教授提供之配合獎助金使用，於審查委員會決議之。

六、審核作業由母系「權責相關之委員會」辦理，必要時得請其他相關人員出席。

七、申請時程：每學期開學一個月內向母系辦公室提出申請。

八、申請應備文件：

- (一) 申請表
- (二) 在校歷年成績單
- (三) 學生證影本
- (四) 研究計畫書(申請專題研究計畫獎助者繳交，兩頁為限)
- (五) 研究表現說明及佐證(申請優秀專題學生獎助者繳交)
- (六) 教授推薦信一封
- (七) 其他有助於審查之文件

九、獲專題研究計畫獎助者，有義務參與母系舉辦之研究計畫展演(小物理年會)，並在計畫完成後一個月內須繳交成果報告乙份(兩頁以內)。

十、本辦法如有未盡事宜，本會保留變更及修改之權利。

National Taiwan Normal University, Department of Physics Alumni Association Undergraduate Research Scholarship Guidelines

Approved after revision at the Fifth Interim Meeting of the Board of Directors on June 5, 2020

Origin:

Mr. Liao Jinheng and his wife, Ms. Su Lihui, were outstanding alumni of the 1966 class of the Department of Physics at National Taiwan Normal University (hereinafter referred to as the "Mother School"). During their time at the Mother School, they achieved top academic performance and were highly recognized by their faculty. In 1968, the couple went on to receive a master's degree in physics from Northeastern University in the United States. Mr. Liao Jinheng later became the first graduate student from the Mother School to attend Yale School of Engineering and Applied Science, specializing in magnetoexchange resonance in ferromagnetic metals. After receiving his doctorate, he worked for companies such as Rockwell International and Union Carbide. He remained deeply committed to Taiwan, a place he had nurtured, and made long-term contributions. For example, in the 1980s, when the Longtan Sun Yat-sen University of Science and Technology was developing laser technology, Mr. Liao Jinheng worked tirelessly to secure technology transfer for crystal growth and equipment for Taiwan. After 40 years of laser medical engineering research at the Beckman Laser Institute at the University of California, Irvine, Ms. Su Lihui has retired and dedicated a donation to establish a scholarship at her alma mater in memory of her husband, Mr. Liao Jinheng. She hopes this will inspire younger students and foster a positive academic atmosphere within the department.

- I. To honor and commemorate the academic achievements of Mr. Liao Jinheng, an outstanding alumnus from the Class of 1955 (details are summarized above), and to encourage undergraduate students at her alma mater to engage in special research and foster a positive academic research culture, the Special Research Scholarship (hereinafter referred to as this scholarship) is established.
- II. Funding Source: This scholarship is funded by designated donations from alumni of the Department of Physics Alumni Association of National Taiwan Normal University. This scholarship was initiated by alumni from the Class of 1966, Mr. Liao Jinheng and Ms. Su Lihui, and alumni from all classes are encouraged to contribute to this endowment.
- III. 3. Grant Types:
 - (1) Special Research Project Grant: This grant encourages undergraduate students to join the alma mater's research team and carefully plan and conduct special research.
 - (2) Outstanding Project Student Scholarship: This award encourages undergraduate project students with outstanding research performance.
- IV. Application Qualifications: Applicants must be undergraduate students in their respective departments who meet the following criteria:

- (1) They must be enrolled students in their respective departments (current students) during the application and grant period.
- (2) Their project supervisor must be a full-time, part-time, or joint faculty member in the department.
- (3) Applicants must have a GPA of 3.0 or higher in the previous semester. Other aspects of the applicant's overall performance will also be considered.
- (4) Applicants must provide a recommendation from their supervisor and relevant research project materials.

V. Scholarship Amount: The total annual scholarship amount for this scholarship is capped at NT\$100,000 and will be awarded according to the following principles:

- (1) The scholarship amount for each project is NT\$4,000.
- (2) The scholarship amount for each Outstanding Project Student is NT\$10,000.
- (3) Based on the application content and number of students each semester, the total scholarship amount may be adjusted, provided the maximum amount remains unchanged. The number of awards will be adjusted based on the amount of matching scholarships provided by each advisor. This will be determined by the Review Committee.

VI. The review process will be conducted by the "Responsible Committee" of the parent department, and other relevant personnel may be present as necessary.

VII. Application Deadline: Applications must be submitted to the parent department office within one month of the start of each semester.

VIII. Required Documents:

- (1) Application Form
- (2) Academic Transcripts
- (3) Photocopy of Student ID Card
- (4) Research Proposal (applicants for Special Research Project Grants, two pages maximum)
- (5) Description of Research Performance and Supporting Evidence (applicants for Outstanding Special Research Project Grants)
- (6) One Letter of Recommendation from a Professor
- (7) Other Documents Assisting with Review

IX. Applicants for Special Research Project Grants are required to participate in the research project exhibition (Minor Physics Annual Meeting) organized by their parent department and submit a two-page maximum report within one month of project completion.

X. The Association reserves the right to amend and modify these regulations for any matters not covered herein.