

# Recruitment of Postdoctoral Researchers

(Institute of Photonics Technologies, National Tsing Hua University, Taiwan)

The Ultrafast Photonics Laboratory at National Tsing Hua University is dedicated to innovative research on the generation, measurement, control and application of few-femtosecond laser pulses (<https://nthu-upl.github.io/>). The relevant technologies are active across disciplines of physics, chemistry, materials, engineering and life science.

We are now recruiting for postdoctoral researchers, who will work on ultrafast spectroscopies and bio-imaging using novel ultrafast light sources. The positions will be effective starting from August 1, 2024 until the vacancies are filled. We invite you to apply as per the details below.

## Details

### 1. Number of Positions

- Two(2) Postdoctoral Researchers.

### 2. Job Description

- Develop state-of-the-art spectroscopy platforms with unprecedented time resolution, probe bandwidth and data acquisition speed.
- Investigate novel semiconducting and light harvesting/emitting materials and devices by innovative spectroscopy platforms.
- Explore label-free imaging of high sensitivity and specificity by coherent Raman scattering microscopy.
- Collaborate with leading semiconductor companies to meet the new challenges in the AI-driven semiconductor industry.

### 3. Eligibility

- Hold a doctoral degree, or expected to graduate by the time of appointment, in engineering or sciences.
- Those who are specialized in optics, physical chemistry, biophysics, or with practical experience in using femtosecond lasers, optical microscopes are particularly welcome.

- Cooperative, willing to contribute not only to individual research and tasks but also to the overall lab activities.

#### 4. Employment Term

- Generally, a one-year contract, with possible annual extensions based on individual's abilities, job performance, work attitude, progress of assigned tasks, workload at contract expiration, budget situation and other factors. Extensions are possible up to July 2026 (based on evaluation).

#### 5. Appointment

- To be decided after consultation upon hiring decision.

#### 6. Work Conditions

- **Working Hours:** Generally, five days a week.
- **Stipend:** Based on the *Salary Standards for Postdoctoral Researchers in Special Projects at National Tsing Hua University*, determined considering the candidate's research achievements and experience. For example, those who newly obtain their doctoral degree are entitled to earn 63,111 NTD per month, 13.5 months for an entire year (amount to ~4,100,000 JPN or ~27,000 USD per year, based on the currency exchange rates in June 2024). Please refer to the table at the end of this document. Bonus is possible depending on the performance. (Note: The Income Tax Rate of postdoctoral researchers in Taiwan is typically 12%.)

#### 7. Application Method

- Application Documents:
  1. Your resume.
  2. List of research achievements, such as academic papers, patents, academic presentations, ...etc., as thorough as possible. For each academic paper, please indicate the impact factor and rank of the journal based on *Clarivate* Journal Citation Reports. For example, *Nature Communications* (IF 16.6, rank 6/73 in Multidisciplinary Sciences).

3. Summary of past research and future aspirations (format free, approximately one A4 page each, including diagrams).
  4. Proof of Ph.D. degree (if applicable).
  5. Two(2) referees (professors or researchers who can properly comment on your academic or work performance). Please provide their full names, job titles, affiliations, Email addresses, and durations within which you work with them.
- Please send the application documents as email attachments to the following address:
    - Email: shangda [AT] ee.nthu.edu.tw (replace [AT] with @)
    - Email subject: "Ultrafast Photonics Lab Postdoc Application (Your Name)"
  - Submit application documents 1) to 5) as PDF files. Scanned handwritten documents converted to PDF are acceptable. Please name the files as shown in the example: (e.g., for "Robert Oppenheimer": "document\_number\_name.pdf")
    1. Resume:  
01\_Oppenheimer\_Robert.pdf
    2. List of research achievements:  
02\_Oppenheimer\_Robert.pdf
    3. Summary of research and aspirations:  
03\_Oppenheimer\_Robert.pdf
    4. Doctoral degree proof:  
04\_Oppenheimer\_Robert.pdf
    5. Referees  
05\_Oppenheimer\_Robert.pdf

## 8. Submission Deadline

- 15th of July, 2024 (for those who intend to be appointed since August 2024)

- Not until the vacancies are filled.

## 9. Selection Process

- After document review, interviews will be conducted. Only successful candidates will be notified via email. If the interview is in-person, travel and accommodation expenses will be borne by the applicant. Application documents will be used solely for this recruitment and will be handled appropriately without disclosure, transfer, or lending to third parties without valid reason.

## 10. Contact Information

- Prof. Shang-Da Yang (Director, Institute of Photonics Technologies, National Tsing Hua University, Taiwan)
- Email: shangda [AT] ee.nthu.edu.tw (replace [AT] with @)



## 國立清華大學專題計畫人員博士後研究支薪標準表(修正後)

106 年 7 月 11 日 105 學年度第 14 次校務會報通過

107 年 5 月 15 日 106 學年度第 57 次校務基金管理委員會通過

107 年 5 月 15 日 106 學年度第 12 次校務會報通過

111 年 4 月 19 日 110 學年度第 82 次校務基金管理委員會通過

111 年 4 月 19 日 110 學年度第 12 次校務會報通過

113 年 4 月 23 日 112 學年度第 11 次校務會報通過

113 年 5 月 9 日 112 學年度第 96 次校務基金管理委員會通過

薪級	月支薪酬(元)	年資採計
1	63,111	0
2	65,406	1
3	67,701	2
4	69,996	3
5	72,290	4
6	74,586	5
7	76,880	6
8	79,175	7
9	81,470	8
10	83,766	9
11	86,061	10

備註：

1. 新進博士後研究起薪以 63,111 元為原則，惟情形特殊者，得視計畫經費或受聘者特殊專長等事由，專簽會辦研發處及校方核定酌予調整。
2. 凡取得博士學位後且服務於國內外機構之工作年資，經計畫主持人同意，應檢附從事博士後研究或相關等級之工作證明文件，每滿一年採計一年年資，未滿一年者不予採計，年資提敘以一次為限(服研發替代役者，第一、二階段年資不予採計)。
3. 如已支最高第 11 薪級而計畫主持人認為受聘者優異擬調高薪級，專

簽會辦研發處及校方核定酌予提高。

4. 申請國科會延攬客座科技人才之教學研究費得參考本表並以不超過每月新台幣 86,061 元為原則，作為建議薪酬之參考。