

## 109 年(第三期)重點產業高階人才培訓與就業計畫 甄選會

## 博士級產業訓儲菁英(職缺說明)

\*請依據核配員額數填寫本職缺表，並於 10/4(五)中午 12 點前回傳計畫辦公室(raise@itri.org.tw)。  
(諮詢電話: 04-25687661 王小姐)

單位名稱	國立臺灣師範大學			攤位	計畫辦公室填寫
				編號	
網址	https://www.ntnu.edu.tw/				
聯絡人	謝毓薇 小姐	電話	(02) 2366-0853	傳真	( ) -
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電子郵件	amelie2396@ntnu.edu.tw				
單位簡介	◆ 成立日期：56 年 3 月 28 日				
	◆ 組織研發或培訓能量： 本校近五年產學合作案逐年提升，研發能力豐沛，透過產學合作與專利技轉，與產業鏈結緊密，並建置「產學技轉媒合平台」擴大產學合作效益。在此產學雙方互惠提升，合作企業對於本校技術能力的信賴，衍生至對於技術人才的需求，學校研發團隊、企業技術與人才的流通，實習、就業與技術合作媒合機制歷年皆有相關實績，為本計畫重點產業高階人才培訓打下深厚的根基。 且為鼓勵研發成果加值應用，促進高階研發人才導入企業就業(spin in)，及協助師生開發關鍵技術創業(spin off)，近年成立產創實驗室，提供產創實驗室團隊技術研發空間、貴重儀器使用、業師諮詢、媒合廠商進行技術深化與開發產品、申請關鍵技術專利、衍生產品及技轉服務。為本計畫提供關鍵技術培訓之優勢。				
	◆ 總員工人數：3,233 人				
	【下方為核定 9 人之統計(須依實際核定名額為準)】 招生職類員工人數：亞洲·矽谷類 2 人，數位經濟類 0 人，智慧機械類 3 人，綠能產業類 1 人，生醫產業類 2 人，國防產業類 0 人，新農業類 0 人，循環經濟類 0 人，文創科技類 0 人，晶片設計與半導體類 1 人，其他相關類 0 人				
<u>(上述欄位除“組織研發或培訓能量”，其餘項目請填寫數字即可)</u>					

福利制度					
1. 學員培訓期間之管理機制及福利制度，悉依本單位相關規定辦理。 2. 本單位適用勞基法。(如貴單位非適用勞基法請協助修改本項) 3. 協助媒合學員赴產業界就業，進而促進生技產業發展。					
招生職類	工作內容	需求條件	工作地點	員額	實習場域/預計合作廠商
綠能產業	1. 車用 AI 演算法設計 2. 軟體/韌體應用與系統整合 3. 車用能源管理與診斷系統之標準測試 4. 車用能源管理與診斷系統之工業與車用 ISO 認證 5. 車用通訊與診斷系統研發	1. 具備機械、電機、通訊以及車輛之中高階技術與核心理論知識者 2. 具備初階以上 AI 或深度學習之應用開發者 3. 具備車用診斷或車用資通訊系統之基本技術與應用經驗尤佳 4. 曾具車用電子與通訊之工作經驗者尤佳 5. 具備工作熱忱，可積極配合公司發展方向進行任務執行	臺北市	3(須依實際核定名額為準)	威潤科技股份有限公司
晶片設計與半導體	1. 主開發新製程技術與專案計畫執行，有半導體與生物檢測開發相關製程經驗佳 2. 能設計 DOE 並執行計畫，數據分析與整理報告 3. 能執行拋光，蝕刻，蒸鍍，量測，離子植入，切割/挑檢，回焊與材料分析等工作 4. 收集市場資訊與參考文獻 5. 參與實驗室的管理	1. 電機/電子/物理/材料/機械化學/化工/生物醫學工程相關科系 2. 英文(聽:中等、說:中等、讀:中等、寫:中等) 3. 能配合加班需求 4. 具一年以上工作經驗 5. 具拋光，離子植入，切割/挑檢，回焊與元件設計與製程背景佳	新竹市	5(須依實際核定名額為準)	昇陽國際半導體股份有限公司
智慧機械	儀器研發研究員	1. 儀器軟體之開發設計 2. 儀器機電系統開發設計 3. 數位訊號與類比訊號計算處理 4. 功能驗證與機台整合測試 5. 問題分析及處理	臺北市	3(須依實際核定名額為準)	典試科技股份有限公司
智慧機械	機械設計及製造經驗、研發及智慧機械應用	1. 電機博士、機械博士、工業設計博士 2. 英文聽說寫中高級	新北市三重區	1(須依實際核定名額為準)	新進鐵工廠股份有限公司
生醫產業	1. 影像醫療設備整合型專案 2. 智慧醫療服務新專案	1. 生醫產業專業 2. 醫療影像/醫療設備/核醫學/放射科學/影像診斷/AI 影像判斷等相關專業	苗栗縣竹	1(須依實際核定名額為準)	京鼎精密科技股份有限公司

招生職類及員額

			南		
生醫產業	<ol style="list-style-type: none"> <li>1. 檢測試劑設計開發、驗證與確效。</li> <li>2. 分生實驗設計、執行與trouble。 shooting。</li> <li>3. 撰寫產品設計開發相關文件。</li> <li>4. 實驗數據分析。</li> <li>5. 其他主管交辦事項。</li> </ol>	<ol style="list-style-type: none"> <li>1. 具分子生物、醫學檢驗等相關背景。</li> <li>2. 具備Primer design、real-time PCR等基本分生技術。</li> <li>3. 具檢驗試劑開發產業經驗者尤佳。</li> </ol>	新北市中和區	1(須依實際核定名額為準)	伊勒伯科技股份有限公司
生醫產業	<ol style="list-style-type: none"> <li>1. 基因檢測產品開發與優化。</li> <li>2. 運用生物資訊軟體執行分析。</li> <li>3. 撰寫產品設計開發相關文件。</li> <li>4. 其他主管交辦事項。</li> </ol>	<ol style="list-style-type: none"> <li>1. 具分子生物、生物資訊等相關背景。</li> <li>2. 具Python程式基本撰寫能力，熟悉Machine Learning者尤佳。</li> <li>3. 具NGS、Microarray操作經驗者尤佳。</li> </ol>	新北市中和區	1(須依實際核定名額為準)	伊勒伯科技股份有限公司
生醫產業	<ol style="list-style-type: none"> <li>1. 開發核酸檢測相關醫材。</li> <li>2. 撰寫設計開發流程文件。</li> <li>3. 實驗結果分析。</li> <li>4. 主管交辦事項。</li> </ol>	<ol style="list-style-type: none"> <li>1. 具分子生物學、自然學科、工程學科等相關背景。</li> <li>2. 具體外診斷醫療器材開發產業經驗者尤佳。</li> </ol>	新北市中和區	1(須依實際核定名額為準)	伊勒伯科技股份有限公司
亞洲·矽谷	<ol style="list-style-type: none"> <li>1. 負責AI團隊自然語言處理各模組的開發，特別在句子分類，語義理解，序列生成，問答對話</li> <li>2. 在服務型機器人的基礎上，開發相關的AI智能演算法</li> </ol>	<ol style="list-style-type: none"> <li>1. 具備良好的python程式設計能力</li> <li>2. 對機器學習演算法、神經網路有較強的背景知識</li> <li>3. 熟悉TensorFlow、PyTorch、Keras或其他機器學習框架</li> <li>4. 具自然語言處理(NLP)相關經驗，包括分詞(word segmentation)、詞向量、命名實體識別(named entity recognition)、文本分類(text classification)、序列標記及生成等</li> <li>5. 具備強烈自我學習及解決問題的能力，並具有良好的團隊合作精神和主動意識。</li> </ol>	台北市中山區	1(須依實際核定名額為準)	香港商女媧處造股份有限公司台灣分公司
亞洲·矽谷	<ol style="list-style-type: none"> <li>1. Target to motivate security architecture in SW/HW.</li> <li>2. Research design paper to motivate recently security design for mobile or Blockchain eco.</li> </ol>	<ol style="list-style-type: none"> <li>1. Familiar with C and C++.</li> <li>2. Familiar or understanding ARM trust execution environment architecture and related design.</li> <li>3. Familiar with MicroP or Secure</li> </ol>	新北市新店區	1(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部

			chip architecture and development. 4. Good to understanding Blockchain eco-system and trend.			
	亞洲・砂谷	1. Target to motivate SLAM/3D reconstruction architecture in SW/HW. 2. Research design paper to motivate recently SLAM/3D reconstruction design for mobile device.	1. Familiar with SLAM/3D reconstruction. 2. Familiar or understanding GPU/DSP execution environment.	新北市新店區	1(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
	亞洲・砂谷	1. Target to motivate CV/deep learning/image enhancement architecture in SW/HW. 2. Research design paper to motivate recently multimedia design for mobile device.	1. Familiar with CV/Deep learning. 2. Familiar or understanding GPU/DSP execution environment.	新北市新店區	1(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
	亞洲・砂谷	1. Research the papers about 3DoF and 6DoF tracking algorithm. To know the PROS/CONS for different kind algorithm. 2. Assist RD to design/implement it on android or RTOS platform.	1. Familiar with C and C++. 2. Familiar or understanding the tracking algorithm. Including 6-axis/9-axis sensor fusion, sensors plus camera fusion to generate 3DoF/6DoF pose data.	新北市新店區	1(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
招生職類及員額	亞洲・砂谷	1. Target to enhance image quality in portable device via deep learning. 2. Research and implement related paper and try to make innovation in portable	1. Familiar with deep learning 2. Familiar with computer vision, especially in image quality enhancement 3. Familiar with Python and	新北市新店區	1(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部

		device. .	Tensorflow.			
招生職類及員額	亞洲·矽谷	<p>目前團隊主要研究方向有 SLAM 的定位追蹤、遙控器的定位追蹤、手部的追蹤、環境理解與姿態理解。除了這幾個大方向外，我們也有多位獨立研究人員，分別負責一些前瞻性的研究。</p> <p>日常作息就跟一般研究室相似，多數時間都是用於論文研讀，實驗，跟演算法創新。使用的語言以 C++ 跟 Python 為主，使用的環境都是 Ubuntu Linux，產品演算法都是移植於向量型硬體加速器上，如 Neon, OpenCL, HVX 或 CEVA。內部的管理使用 scrum 模型，採低度管理，所有工程人員不管職稱都是平行的。</p> <p>工作內容： VR 頭盔，AR 眼鏡的電腦視覺追蹤定位 遙控器的的電腦視覺追蹤定位 手勢偵測，與手的追蹤 演算法的硬體平台移植與優化</p>	<p>熟悉電腦科學，如計算機結構，操作系統，資料結構與演算法 (必須)熟悉 C 或 C++ 的編程技法，有實務編程經驗 (必須)喜歡讀論文，做研究，並以此為人生的職志 (必須)有電腦視覺的背景 (加分選項) 有機器學習的背景 (加分選項) 有演算法的背景 (加分選項)</p>	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
招生職類及員額	亞洲·矽谷	<p>1. Research and develop audio algorithms for VR/AR/MR applications, especially in spatial audio, room acoustical model, sound enhancement, and auditory signal processing.</p> <p>2. Investigate optimal audio algorithm design for best performance of audio system.</p> <p>3. Design and apply the model of machine learning in audio application.</p> <p>4. Audio function design, implement and optimize for Unity, Unreal, software SDK, and so on.</p> <p>5. Evaluate DSP chips and develop new audio features</p>	<p>1. BS or above, major in EE, CS or others related to audio fields.</p> <p>2. The one with the following related experiences is a plus. --Filter design/Audio algorithm design --Good programming skill. (Matlab, C/C++ and etc.) --Micro-controller/processor programming.</p> <p>3. Personality: self-learning, positive thinking, active, passion, analytic capability and team working.</p> <p>4. Good reading/writing and oral conversation in English.</p>	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部

		<p>inside.</p> <p>6. Researching and reviewing innovative techniques for spatial audio, speech, and noise processing.</p> <p>7. Development of audio algorithm for Android base platform.</p>				
<p>招生職類及員額</p>	<p>亞洲·砂谷</p>	<p>1. Research and develop audio algorithms for VR/AR/MR applications, especially in spatial audio, room acoustical model, sound enhancement, and auditory signal processing.</p> <p>2. Investigate optimal audio algorithm design for best performance of audio system.</p> <p>3. Design and apply the model of machine learning in audio application.</p> <p>4. Audio function design, implement and optimize for Unity, Unreal, software SDK, and so on.</p> <p>5. Evaluate DSP chips and develop new audio features inside.</p> <p>6. Researching and reviewing innovative techniques for spatial audio, speech, and noise processing.</p> <p>7. Development of audio algorithm for Android base platform.</p>	<p>1. BS or above, major in EE, CS or others related to audio fields.</p> <p>2. The one with the following related experiences is a plus.  --Filter design/Audio algorithm design  --Good programming skill. (Matlab, C/C++ and etc.)  --Micro-controller/processor programming.</p> <p>3. Personality: self-learning, positive thinking, active, passion, analytic capability and team working.</p> <p>4. Good reading/writing and oral conversation in English.</p>	<p>新北市新店區</p>	<p>2(須依實際核定名額為準)</p>	<p>宏達國際電子股份有限公司-新店總部</p>
	<p>亞洲·砂谷</p>	<p>1. Camera image quality optimization tuning for 3A function, Color performance, Gamma , Noise and Sharpness.</p> <p>2. Image processing algorithm development.</p> <p>3. Advanced technology related development for image</p>	<p>1. BS or above, major in Optical, EE or Computer Science related fields.</p> <p>2. It' s plus with Color Engineering/Photography/Image processing Knowledge.</p> <p>3. Good programming skill. (Matlab, C or Python etc.)</p>	<p>新北市新店區</p>	<p>2(須依實際核定名額為準)</p>	<p>宏達國際電子股份有限公司-新店總部</p>

		<p>system. (eye tracking, object tracking, depth calculation)</p> <p>4. Define ISP algorithm requirement/specification and cooperate with ISP supplier to design ISP</p> <p>5. Develop and improve camera image processing algorithm to improve image quality</p> <p>6. Develop software tools for camera verification and IQ tuning.</p> <p>7. Implement and improve image quality testing specification</p>	<p>4. Camera image signal processing chip design or processing flow/algorithm</p> <p>5. Image quality standards</p> <p>7. familiar algorithm with VR camera tracking, ISP, object tracking, eye tracking, de-fisheye calibration , 3A, 3D reconstruction etc is plus</p> <p>8. Personality: self-learning, positive thinking, active, passion, analytic capability and team working.</p> <p>9. Unity environment skill.</p> <p>10. Good writing and oral conversation in English.</p>			
招生職類及員額	亞洲・矽谷	<p>We are calibration team from HTC VIVE, devote to precise camera/IMU calibration for VR/AR tracking system and applications, in responsible of calibration algorithm and automated manufacturing process development.</p>	<p>Excellent C/C++ and OOP skill</p> <p>Good in linear algebra</p> <p>Good in mathematical optimization / numerical Optimization</p> <p>Love to handcraft/DIY is a plus</p> <p>Experience in Computer Vision is a plus</p> <p>Experience in SLAM development is a big plus</p> <p>Experience in Camera/IMU calibration development is a big plus</p>	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
	亞洲・矽谷	<p>1. Research for Image Sensor/Lens/VCM/OIS/TOF/dual camera design and define the requirement for LENS, sensor, camera module.</p> <p>2. Camera system design from camera module to ISP HW and review the combine performance between ISP algorithm and camera module</p> <p>3. Researching circuit/ISP chipset to fulfill innovative features</p>	<p>1. BS or above, major in Optical/Electro-Optical/EE or other related fields</p> <p>2. With good knowledge of CMOS sensor, VCM, lens design, OIS, module design and optical science is a plus</p> <p>3. Familiar algorithm with VR camera tracking, ISP, object tracking, eye tracking, de-fisheye calibration, 3A, etc is plus</p> <p>4. Personality: self-learning, positive thinking and active,</p>	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部

		<p>4. Designing circuit to prevent from interferences(EMI, etc.) and thermal/power noise</p> <p>5. Co-working with cross-functional teams for good layout design and also review camera module layout</p> <p>6. Researching object tracking, eye tracking, VR tracking</p>	<p>analytic capability and team working.</p> <p>5. Good written and oral conversation in English</p>			
<p>招生職類及員額</p>	<p>亞洲·矽谷</p>	<p>1. VR optical component design and development.</p> <p>2. Study novel VR optical design and develop prototypes for concept verification.</p> <p>3. Optical component simulation for VR application [ e.g. aspherical lens, Fresnel lens, freeform lens, microlens array, and spatial light modulator]</p> <p>4. Define optical component specification, incoming quality control method, tools, and SOP to characterize component and system level performance.</p> <p>5. Work closely with mechanical team and vendors in developing new optical component and test equipment.</p>	<p>1. PhD degree in Optics/Physics/Material science engineering more than 2 years of related works experience; advanced degree is a plus.</p> <p>2. Prefer a strong background in Physics optics.</p> <p>3. Strong experimental skills and hand-on experience in Optical Component coating/material/fabrication.</p> <p>4. Familiar with optical simulation tools. [ZEMAX, CodeV, LightTools, ASAP, Rsoft]</p> <p>5. Excellent communication skills. [cross-team, cross-company collaboration]</p> <p>6. Ability to work independently and in a team-oriented environment, as needed.</p> <p>7. Personal attributes should include self-learning; critical thinking; active; sound judgment; clear sense of purpose; attention to detail and accountability.</p> <p>8. Good communication skills, both oral and written in English.</p> <p>9. Experience with precision fabrication technologies or HMD</p>	<p>新北市新店區</p>	<p>2(須依實際核定名額為準)</p>	<p>宏達國際電子股份有限公司-新店總部</p>



			optical design is plus. 10. Familiar with MicroDisplay/LCos/DLP/MEMS scanning is plus			
招生職類及員額	亞洲· 矽谷	<p>1. Imaging &amp; non-imaging optical system design and development. [e.g. HMD, HUD, micro-projector]</p> <p>2. Optical engine/component simulation for HMD application [ e.g. light engine, freeform lens, holographic optical element, diffraction optical element]</p> <p>3. Define optical engine/component specification and incoming quality control SOP.</p> <p>4. Develop and implement optical component quality control and testing tools to characterize component and system level performance.</p> <p>5. Research for HMD innovation and develop prototypes for concept verification.</p> <p>6. Work closely with mechanical team and vendors in developing new optical engine/component and test environment.</p>	<p>1. MS or above, major in optics, physics or relative field.</p> <p>2. Familiar with optical simulation tools. [ZEMAX, CodeV, LighTools, Rsoft]</p> <p>3. Excellent communication skills. [cross-team, cross-company collaboration]</p> <p>4. Personality: self-learning, positive thinking, active, passionate, analytical thinking capability and team work.</p> <p>5. Good writing and oral conversation in English.</p> <p>6. Experience with 3D display, light field display, holographic display, freeform optics, lens molding, or VR optical design is plus.</p> <p>7. Familiar OLED/TFT/MicroDisplay/flexible display is a plus</p>	新 北 市 新 店 區	2(須依 實際核 定名額 為準)	宏達國 際電子 股份有 限公司 -新店 總部
	亞洲· 矽谷	<p>1. Being responsible for the electrical and optical development of displays from concept to mass production on system level design and cooperation with suppliers,</p> <p>2. Perform fine-tuning and verification for display,</p> <p>3. New display technology development related,</p> <p>4. Review and verify display/driver IC design and</p>	<p>1. BS or above, major in Optical, EE.</p> <p>2. familiar with OLED/TFT design</p> <p>3. It' s plus with Color and Image processing Knowledge.</p> <p>4. Good programming skill is plus. (Matlab or C, etc.)</p> <p>5. with projector system design is plus</p> <p>6. Personality: self-learning, positive thinking, active, passion, analytic capability</p>	新 北 市 新 店 區	2(須依 實際核 定名額 為準)	宏達國 際電子 股份有 限公司 -新店 總部

招生職類及員額		performance, 5. Develop image processing algorithm to improve display image quality, 6. Define display requirement for VR/AR applications, 7. Optical system design in VR/AR including optical sensor, Lens..etc.	and team working. 7. Good writing and oral conversation in English.			
	亞洲・矽谷	-Audio circuit design including Audio codec, speaker/headphone amplifier, bridge IC etc. -Acoustic design including headphone design, speaker box design -Integrate Audio and Acoustic design and deliver a good performance -Measurement skills: Audio precision, ACQUA, Soundcheck, B&K etc. -Layout design and schematic design -Trouble shooting/debug skills including issue management etc.	-Well Cross function communication -Well project report delivery -5 yrs related field experience	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
	亞洲・矽谷	-Design, develop, test, maintain and improve software. - Manage individual task priorities and deadlines. - Write basic documentations, samples and tutorials.	-Experience in Architecture Design -Familiar with Unreal/Unity -Familiar with either C/C++/Java/C# -2 to 5 Years of Experience -With Learning Ability and Enthusiasm	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
亞洲・矽谷	• Develop library and program for streaming network communication. • Analysis network transmission quality. • Debug problems related to network library and transmission latency.	• 3+ years programming experience. • Proficient in C++, knowledge of socket programming • Knowledge of various network protocols such TCP, UDP, HTTP. • Ability to work as a team player.	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部	

		<ul style="list-style-type: none"> <li>• Able to break a large task down into manageable small tasks, plan and give schedule.</li> <li>• Communicate the progress of your work to your peers and leads.</li> <li>• Able to do self test before QC to ensure quality of codes.</li> <li>• Correct defects discovered by QC in a timely fashion.</li> </ul>	<p>Nice to have:</p> <ul style="list-style-type: none"> <li>• Experience with RTP protocol is a plus.</li> <li>• Knowledge of video/audio codec is a plus.</li> </ul>			
招生職類及員額	亞洲·矽谷	<p>Employ deep learning, reinforcement learning, and unsupervised learning to solve challenging problems in the field of healthcare, virtual reality and augmented reality. As part of a research team, the candidate is required to formalize the problems, design new models and devise novel algorithms for the core techniques of the aforementioned fields.</p>	<p>The candidate must be passionate about doing research and is desirable to be familiar with one of the following methods:</p> <ul style="list-style-type: none"> <li>- deep learning such as CNN, RNN and GAN</li> <li>- object detection such as Faster RCNN and YOLO</li> <li>- image segmentation such as U-Net</li> <li>- numerical optimization or statistical learning</li> </ul> <p>It would be appreciated to have good skills in paper reading and presentation.</p>	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部
	亞洲·矽谷	<p>Use deep learning techniques to solve challenging problems in computer vision and healthcare. As part of a research team, the candidate is required to formulate the problems, design new models and propose novel approaches.</p>	<ul style="list-style-type: none"> <li>-MS or PhD in computer science or any related field</li> <li>-Background knowledge of machine learning, deep learning, digital image processing, and computer vision</li> <li>-Familiar with convolutional neural networks</li> <li>-Experience in one or more of the following: image recognition, object detection, image segmentation, generative adversarial networks</li> <li>-Familiar with reading academic papers (CVPR/ICCV/ECCV/MICCAI)</li> </ul>	新北市新店區	2(須依實際核定名額為準)	宏達國際電子股份有限公司-新店總部