

腦中風智慧醫療與科技長照特色領域研究中心申請計畫附件資料

附件一：經費申請明細

1. 本中心新規劃6位研究教授職缺(研究助理教授、研究副教授、與研究教授)，待遇部分之基本薪水比照教育部助理教授、副教授與正教授之規定，試算以最高薪級10.5萬X13.5月加退撫部分約年薪150萬，6位試算最高約900萬。這一部分薪水的支出，由本校相對配合款支應
2. 本中心向教育部申請經費補助總金額如下表：

計劃別	項目	第 1 年	第 2 年	第 3 年	第 4 年	第 5 年	小計
全部計劃	人事費	18,371,325	18,383,922	18,456,723	18,486,141	18,512,978	92,211,089
全部計劃	業務費	13,211,400	13,191,400	13,191,400	13,261,400	13,261,400	66,117,000
全部計劃	國外差旅費	2,250,000	2,050,000	2,050,000	2,050,000	2,050,000	10,450,000
全部計劃	設備費	3,531,000	3,090,000	3,270,000	3,624,000	2,380,000	15,895,000
全部計劃	總計	37,363,725	36,715,322	36,968,123	37,421,541	36,204,378	184,673,089

補助總金額分別來自總計畫與五項子計畫 詳如下述說明：

計劃別	項目	第 1 年	第 2 年	第 3 年	第 4 年	第 5 年	小計
總計畫	人事費	10,518,475	10,518,475	10,518,475	10,518,475	10,518,475	52,592,375
總計畫	業務費	4,122,000	4,122,000	4,122,000	4,122,000	4,122,000	20,610,000
總計畫	設備費	200,000	0	0	0	0	200,000
總計畫	國外差旅費	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	5,250,000
總計畫	總計	15,890,475	15,690,475	15,690,475	15,690,475	15,690,475	78,652,375

人事費：1.碩士級專任助理 593,475 元。2.博碩士級兼任助理 100,000*2 人=200,000。3.由本計畫支助聘請博士後研究 5 位：5 名 X7 萬 X13.5 月=472.5 萬。4.6 位研究教授(Research Professorship)之基本年薪平均每位 150 萬，共 900 萬之部分薪資(500 萬/年)。

設備費：第 1 年：Notebook 5 台 5*40000=200,000 元

業務費：1.第一~五年，每年耗材約 8 萬元 2.每年辦理 ICHM 國際研討會補助 60 萬元 3.加入產業相關協會團體會員會費約 3 萬元 4.每年遴派優秀研究生 2 名至產業界駐點千里馬計畫：每月補助 3.5 萬 X 12 月 X2 位=84 萬 5.中心接受產學界寒暑假短期交流計畫：預計 6 名 X3.5 萬 X2 個月=42 萬 6.中心建立研究教授制度吸引年輕優秀人才規劃 6 位：其薪俸由校方支應外 另加彈性研究加級每年 30 萬以吸引人才 每年共 180 萬元 7.每位研究教授聘任由中心提供一次性研究啟

動費 20 萬元 8. 召開產官學產業發展諮詢會議 每年 1 場 (出席費 3600/人次 交通費平均每人 1000/次 場地費 10000/次 茶水費 1000/次 行政文書耗材費(海報 文具 紙張等) 每次 3 千元 每次邀請 30 人參加 每年共約 15.2 萬元)

差旅費: 1. 赴英國或美國移地研究差旅費: 5 位子計畫主持人 X15 萬共 75 萬 2. 每年遴派研究生 2 名至英國或美國移地研究差旅費 2 周: 2 人 X15 萬共 30 萬

計劃別	項目	第 1 年	第 2 年	第 3 年	第 4 年	第 5 年	小計
子計劃一	人事費	2,580,000	2,580,000	2,580,000	2,580,000	2,580,000	12,900,000
子計劃一	業務費	400,000	380,000	380,000	450,000	450,000	2,060,000
子計劃一	國外差旅費	250,000	250,000	250,000	250,000	250,000	1,250,000
子計劃一	設備費	950,000	890,000	950,000	900,000	900,000	4,590,000
子計劃一	總計	4,180,000	4,100,000	4,160,000	4,180,000	4,180,000	20,800,000

人事費: 每年 2,580,000 元(博士後研究 1 名: 900,000 元/年, 碩士級專任助理 2 名:

1,200,000 元/年, 博碩士級兼任助理 2 名: 月支費用 20,000 元 x12 月 x2 名= 480,000 元/年)

業務費: 教育訓練費、專家出席費、專家諮詢費、圖書費、臨時工資費、雜支費、國內外會議註冊費等

差旅費: 每年 250,000 元, 主持人、專任助理及博士生出席參加海外國際學術研討會。

設備費: 第一年: 950,000 元, 包含穿戴式 IOT 感測設備及監測系統(穿戴式 IOT 監測系統)(600,000 元)、電腦工作站(社區照護雲端伺服器)(350,000 元)。第二年: 890,000 元/, 包含居家生理 IOT 感測設備及監測系統(居家生理 IOT 監測系統)(60,000 元 x10 台)、電腦工作站/筆記型電腦設備(工作站等級電腦)(100,000 元 x2 台)、電腦工作站/筆記型電腦設備(筆記型電腦設備)(45,000 元 x2 台)。第三年: 950,000 元, 包含護理之家 IOT 感測及監測系統(護理之家 IOT 監測系統)(600,000 元)、電腦工作站(護理之家雲端伺服器)(350,000 元)。第四年: 900,000 元, 包含磁碟陣列(供資料異地備份使用)(60,000 元 x1 台)、平板電腦 (40,000 元 x1 台)、資通安全監測軟體(500,000 元)、電子紙設備與系統(300,000 元)。第五年: 900,000 元, 包含高彈性之大數據分析平台(600,000 元)、入侵偵測系統 (300,000 元)。

計劃別	項目	第 1 年	第 2 年	第 3 年	第 4 年	第 5 年	小計
子計劃二	人事費	953,475	966,072	1,038,873	1,068,291	1,095,128	5,121,839
子計劃二	業務費	78,200	78,200	78,200	78,200	78,200	391,000
子計劃二	國外差旅費	200,000	200,000	200,000	200,000	200,000	1,000,000

子計劃二	設備費	350,000	300,000	250,000	104,000	160,000	1,164,000
子計劃二	總計	1,581,675	1,544,272	1,567,073	1,450,491	1,533,328	7,676,839

人事費：第一年 953,475 元(碩士級專任助理 1 名：593,475 元/年，碩士級兼任助理 1 名(學習範疇)：360,000 元/年。第二年 966,072 元(碩士級專任助理 1 名：606,072 元/年，碩士級兼任助理 1 名(學習範疇)：360,000 元/年。第三年 1,038,873 元(碩士級專任助理 1 名：678,873 元/年，碩士級兼任助理 1 名(學習範疇)：360,000 元/年。第四年 1,068,291 元(碩士級專任助理 1 名：708,291 元/年，碩士級兼任助理 1 名(學習範疇)：360,000 元/年。第五年 1,095,128 元(碩士級專任助理 1 名：735,128 元/年，碩士級兼任助理 1 名(學習範疇)：360,000 元/年。

業務費：每年 78,200 元，包含耗材費 28,200 元/年、論文發表費 45,000 元/年、雜支費 5,000 元/年。

差旅費：每年 200,000 元，主持人、專任助理及博士生出席參加海外國際學術研討會。

設備費：第一年：350,000 元，包含資料分析伺服器(150,000 元 x1 台)、與資料分析伺服器連線電腦(50,000 元 x2 台)、資料倉儲伺服器(100,000 元 x1 台)。第二年：300,000 元，包含與資料分析伺服器連線電腦(50,000 元 x2 台)、文字探勘平台(暫定為 SAS Text Miner) (200,000 元 x1 台)。第三年：250,000 元，包含地理資料分析伺服器(150,000 元 x1 台)、文字探勘平台(暫定為 arcGIS) (100,000 元 x1 台)。第四年：104,000 元，包含磁碟陣列(60,000 元 x1 台)、資料分析伺服器擴充快閃記憶體(11,000 元 x4 台)。第五年：160,000 元，包含 GPU 資料運算伺服器(160,000 元 x1 台)。

計劃別	項目	第 1 年	第 2 年	第 3 年	第 4 年	第 5 年	小計
子計劃三	人事費	1,145,475	1,145,475	1,145,475	1,145,475	1,145,475	5,727,375
子計劃三	業務費	146,200	146,200	146,200	146,200	146,200	731,000
子計劃三	國外差旅費	100,000	100,000	100,000	100,000	100,000	500,000
子計劃三	設備費	600,000	470,000	470,000	270,000	270,000	2,080,000
子計劃三	總計	1,991,675	1,861,675	1,861,675	1,661,675	1,661,675	9,038,375

人事費：每年 1,145,475 元，包含碩士級專任助理 1 名：593,475 元/年、博士級兼任助理 1 名：192,000 元/年、碩士級兼任助理 3 名：360,000 元/年。

業務費：每年 146,200 元，包含：耗材費 46,200 元/年、論文發表費 45,000 元/年、雜支費 5,000 元/年、資料檢索費 30,000 元/年、審查費 20,000 元/年。

差旅費：每年 100,000 元，主持人、專任助理及博士生出席參加海外國際學術研討會。

設備費：第一年：600,000 元，包含電腦工作站(100,000 元 x2 台)、醫學影像分析與視覺化系統 (400,000 元 x1 台)。第二年：470,000 元，包含電腦工作站(100,000 元 x2 台)、行動裝置 (35,000 元 x2 台)、雲端磁碟陣列(200,000 元 x1 台)。第三年：470,000 元，包含電腦工作站(100,000 元 x2 台)、行動裝置 (35,000 元 x2 台)、雲端磁碟陣列(200,000 元 x1 台)。第四年：270,000 元，包含電腦工作站(100,000 元 x2 台)、行動裝置 (35,000 元 x2 台)。第五年：270,000 元，包含電腦工作站(100,000 元 x2 台)、行動裝置 (35,000 元 x2 台)

計劃別	項目	第 1 年	第 2 年	第 3 年	第 4 年	第 5 年	小計
子計劃四	人事費	2,280,425	2,280,425	2,280,425	2,280,425	2,280,425	11,402,125
子計劃四	業務費	2,725,000	2,725,000	2,725,000	2,725,000	2,725,000	13,625,000
子計劃四	國外差旅費	600,000	600,000	600,000	600,000	600,000	3,000,000
子計劃四	設備費	230,000	180,000	450,000	1,300,000	0	2,160,000
子計劃四	總計	5,835,425	5,785,425	6,055,425	6,905,425	5,605,425	30,187,125

人事費：每年 2,280,425 元(碩士級專任助理 1 名(設計背景)：593,475 元/年，碩士級專任助理 1 名(程式背景)：593,475 元/年，碩士級專任助理 1 名(工業工程背景)：593,475 元/年，博碩士級兼任助理 100,000*5 人=500,000 元

設備費：第一年：**230,000 元**，包含專家與受測者訪談錄音設備(5,000 元 x10 台)、手機硬體三台(實驗前測使用)(35,000 元 x3 台)、平板顯示器三台(實驗前測使用)(25,000 元 x3 台)。第二年：**180,000 元**，包含手機硬體三台(系統草模測試)(35,000 元 x3 台)、平板顯示器三台(系統草模測試)(25,000 元 x3 台)。第三年：**450,000 元**，包含資料庫伺服器(100,000 元 x3 台)、演算法開發電腦(50,000 x3 台)。第四年：**1300,000 元**，包含穿戴式眼動儀(700,000 元 x1 台)、Analyzer 資料傳輸及數據分析軟體 (600,000 元 x1 台)。

業務費：1. 每年耗材費約 80,000 元。2. 每年召開專家會議 10 場：出席費 3600 元/人次；交通費 1000 元/人次；場地費 10000 元/次；茶水費 1000 元/次；行政文書耗材費(海報/文具/紙張等)3000 元/次。預估 30 人。3. 預計進行 5 場工作坊(25,000 元 x5 場)。4. 專家/受測者訪談逐字稿整理打字勞務費(計 100 人)：每人約 1 萬元 共 100 萬元

差旅費：每年 600,000 元。共同主持人出國參加國際研討會 4 位 X10 萬=40 萬 + 補助博士生 4 位 X5 萬=20 萬 共 60 萬

計劃別	項目	第 1 年	第 2 年	第 3 年	第 4 年	第 5 年	小計
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子計劃五	人事費	893,475	893,475	893,475	893,475	893,475	4,467,375
子計劃五	業務費	5,740,000	5,740,000	5,740,000	5,740,000	5,740,000	28,700,000
子計劃五	國外差旅費	900,000	900,000	900,000	900,000	900,000	4,500,000
子計劃五	設備費	351,000	200,000	100,000	0	0	651,000
子計劃五	總計	7,884,475	7,733,475	7,633,475	7,533,475	7,533,475	38,318,375

人事費：每年碩士級專任助理 593,475 博碩士級兼任助理 100,000*3 人=300,000

設備費：第一年：351,000：分析伺服器(150,000)、連線電腦(50,000*2) 專家訪談錄音設備 5000 元 手機硬體三台(測試 APP 介面使用)20,000X3=60000 平板顯示器三台(測試 APP 使用介面)12000X3=36,000 第二年：200,000：資料倉儲伺服器(100,000)、連線電腦(50,000*2)

第三年：100,000：資料分析軟體(DEA 等其他資料處理與分析軟體 100,000)

業務費：1.耗材費每年約 8 萬元 2.APP 軟體介面美工設計費約 10 萬元 3.第一至第五年：每年召開長照供應鏈/採購專家會議 30 場(出席費 3600/人次 交通費平均每人 1000/次 場地費 10000/次 茶水費 1000/次 行政文書耗材費(海報 文具 紙張等) 每次 3 千元 每次邀請 30 人參加 每年共約 456 萬元)

會議由 6 位共同主持人分頭主持 4.每年專家/受測者訪談逐字稿整理打字勞務費(計 100 人)：每人約 1 萬元 共 100 萬元

差旅費：出國參加研討會：每位共同主持人 10 萬/年 X 6 位共 60 萬

補助博士生 6 人次 每次 5 萬 共 30 萬

附件二：特色中心計畫參與人員近五年期刊發表情形

總主持人與子計畫五主持人 古思明教授 近五年發表期刊

1. Sy-Ming Guu, Jiajun Yu, and Yan-Kuen Wu* (2017), "A two-phase approach to solving the min-max programming problem subject to addition-min fuzzy relational inequalities," Accepted to appear in IEEE Transactions on Fuzzy Systems. (SCI)[**Computer Science, Artificial Intelligence: IF=7.671 & 4/133**] or [**Engineering, Electrical & Electronic: IF=7.671 & 9/262**] (2016)
2. Sy-Ming Guu and Yan-Kuen Wu (2017), "A linear programming approach for minimizing a linear function under fuzzy relational inequalities with addition-min composition," IEEE Transactions on Fuzzy Systems, 25 (4) 985-992, 08/2017. DOI: [10.1109/TFUZZ.2016.2593496](https://doi.org/10.1109/TFUZZ.2016.2593496) [**Computer Science, Artificial Intelligence: IF=7.671 & 4/133**] or [**Engineering, Electrical & Electronic: IF=7.671 & 9/262**](2016)
3. Sy-Ming Guu*, Yadvendra Singh, and S.K. Mishra (2017), "On strong KKT type sufficient optimality conditions for multi-objective semi-infinite programming problems with vanishing constraints," Accepted to appear in Journal of Inequalities and Applications. (SCI)[**Mathematics, Applied: IF=0.791 & 158/255**] or [**Mathematics=0.791 & 106/311**](2016)
4. S.-M. Guu and C.-Y. Lin* (2017), "The multiple lot sizing problem of a serial production system with interrupted geometric yields, rigid demand and Pentico's heuristic," Annals of Operations Research. <https://doi.org/10.1007/s10479-017-2558-4> (SCI)[**Operations Research & Management science: IF=1.709 & 33/83**](2016)
5. Mingwu Ye, Sy-Ming Guu, Lihui Peng, and Xiangmei Wang* (2017), "Local Error Bounds for Infinite Convex-Composite Inequalities in Banach Spaces," Accepted to appear in Journal of Nonlinear and Convex Analysis. (SCI)[**Mathematics, Applied: IF=0.624 & 196/255**] or [**Mathematics: IF=0.624 & 157/311**](2016)
6. J.-F. Bao, C. Li, W.-P. Shen, J.-C. Yao, and S.-M. Guu* (2017), "Approximate Gauss-Newton methods for solving nonlinear least squares problems," Applied Numerical Mathematics, 111, 01/2017, pp. 92-110. (SCI) On Line available. <http://dx.doi.org/10.1016/j.apnum.2016.08.007> [**Mathematics, Applied: IF=0.509 & 218/255**] or [**Mathematics: IF=0.509 & 207/311**](2016)
7. Hsiang Liu, Sy-Ming Guu, and Chin-Tzong Pang (2016), "Global existence for a semi-linear Volterra parabolic equation and neutral system with infinite delay," Applied Mathematical Modelling, Volume 40, Issues 23–24, December 2016, Pages 9966–9989. (SCI), On Line Available <http://dx.doi.org/10.1016/j.apm.2016.06.031> [**Engineering, Multidisciplinary: IF=2.350 & 20/85**] or [**Mathematics, Interdisciplinary applications: IF=2.350 & 19/100**] or [**Mechanics: IF=2.350 & 30/133**]
8. D.-M. Zhu, W. Ching and S.-M. Guu* (2016), "Sufficient Conditions for the Ergodicity of Fuzzy Markov Chains," Fuzzy Sets and Systems, Volume 304, 1

December 2016, Pages 82–93. Available on line Jan. 2016. doi:10.1016/j.fss.2016.01.005 (SCI) [**Computer Science, Theory & Methods: IF=2.718 & 18/104**] or [**Mathematics, Applied: IF=2.718 & 10/255**]

9. S.-M. Guu*, S.-K. Mishra, and Y. Pandey (2016), "Duality For Nonsmooth Mathematical Programming Problems With Equilibrium Constraints," *Journal of Inequalities and Applications*, 2016, **2016:28** DOI: 10.1186/s13660-016-0969-4. (SCI) [**Mathematics, Applied=IF: 0.791 & 158/255**] or [**Mathematics: IF=0.791 & 106/311**]
10. W.-P. Shen, S.-M. Guu and C. Li (2016), "A sensitivity analysis of inverse singular value problems," *Journal of Nonlinear and Convex Analysis*, Vol. 17 (5), 945-956. [SCI] [**Mathematics, Applied: IF=0.642 & 196/255**] or [**Mathematics: IF=0.642 & 157/311**]
11. Yan Zhang, Jinhua Wang, and Sy-Ming Guu (2016), "Convergence of nonsmooth version of Newton's method for generalized equations," *Journal of Nonlinear and Convex Analysis*, Vol. 17 (5), 865-878. [SCI] [**Mathematics, Applied: IF=0.642 & 196/255**] or [**Mathematics: IF=0.642 & 157/311**]
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子計畫一主持人許建隆教授 林維昭副教授 近五年重要期刊發表情形

主持人許建隆教授

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子計畫二主持人 曾意儒助理教授 林詩偉教授 江彥逸助理教授 近五年期刊發表情形

曾意儒助理教授

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子計畫二 共同主持人 林詩偉教授 相關著作:

林詩偉

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子計畫三主持人 萬書言教授 共同主持人張健宏醫師 近五年期刊發表情形 萬書言教授

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子計畫四主持人蔡采璇副教授 黃美涓院長 張賢宗 副教授 郭珍利助理教授
近五年期刊發表情形

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