

## 연수 제안서

연구 분야	Quantum information
연구 과제명	Experimental research on quantum optics and quantum information
연수 제안 업무	Developing quantum optical technology and its application to quantum information processing
<p>- 연수기간 : 채용일로부터 최초 1년 계약, 평가에 따라 연장 가능</p> <p>(연수 내용)</p> <ul style="list-style-type: none"><li>- <i>Developing experimental quantum optics technology</i><ol style="list-style-type: none"><li>1. <i>Discrete-variable (DV) quantum optical technology</i></li><li>2. <i>Continuous-variable (CV) quantum optical technology</i></li><li>3. <i>DV-CV hybrid quantum optical technology</i></li></ol></li><li>- <i>Advanced quantum network technology</i><ol style="list-style-type: none"><li>1. <i>Efficient entanglement generation, manipulation and measurement</i></li><li>2. <i>Developing quantum channel loss robust quantum communication technology</i></li><li>3. <i>Technology development for quantum network</i></li></ol></li><li>- <i>Photonic quantum simulations</i><ol style="list-style-type: none"><li>1. <i>Finding useful applications of quantum simulations</i></li><li>2. <i>Demonstration of photonic quantum simulations</i></li></ol></li></ul>	
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