

Jung ChemEng

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Objective: Research Scientist position that utilizes my extensive experience with nanotechnology, surface, materials and polymer chemistry.

Work History:

Graduate Research Scientist, UC-San Diego (19xx – Present)

- Conducted dissertation research on fabrication of novel nanostructures and their application to biotechnology.

Graduate Research Scientist, Kent State University, OH (Dec. – Jan. 19xx)

- Conducted NSF ALCOM project on Polymer dispersed liquid crystal display at Kent State's Liquid Crystal Institute.

Assistant Researcher, Hanyang Chemical Corporation (Sept. 19xx – Aug. 19xx)

- Synthesized functional polymers for electro-optical applications.

Education: **Ph.D., Electrical Engineering / Applied Physics**

University of California, San Diego (Dec. 20xx)

M.S., Materials Science and Engineering

University of California, San Diego (Aug. 20xx)

M.S., Polymer Engineering / Chemical Physics

University of Akron / Kent State University, OH (Aug. 19xx)

B.S., Chemistry (Specialties: Organic / Polymer Chemistry)

Hanyang University, Seoul (Feb. 19xx)

Qualifications and Skills:

Selected Research Skills:

- Design and fabrication of micro-structures based on polymer and silicon
- Surface chemistry of nanostructures: immobilization of biochemical molecules on the surface of nanostructures
- Bioassay: electro-optical detection of biochemical binding event

Selected Experimental Techniques:

- Micro-fabrication: photolithography, dielectric, metal thin film coating/deposition
- Biochemical and polymer chemistry
- Physicochemical analysis: SEM, AFM, NMR, FTIR, X-ray
- Thermal analysis: DSC, and TGA
- Optical analysis: Optical microscope

Professional Affiliations: Member of *American Physical Society* and *IEEE*

References and publications available on request