

DELONG SONG

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OBJECTIVE

Seeking an internship or a full time position in research and development or Engineering in paper industry or related fields

QUALIFICATIONS

- 4-year research experience in cellulose fibers, mineral fillers and papermaking chemistry
- 5-year work experience as a Research Engineer in China National Pulp and Paper Research Institute
- 1-year industry experience as a Technical Service Engineer
- Involved more than 12 Paper Mill Trails
- Managed a lab of four researchers

EDUCATION

Ph.D. in Paper Science and Engineering	December 2009(expected)
Georgia Institute of Technology	Atlanta, GA
Institute of Paper Science and Technology & School of Chemical and Biomolecular Engineering	
Master of Science in Paper Science and Engineering	June 2005
University of Washington	Seattle, WA
Bachelor of Engineering in Pulping and Papermaking Engineering	July 1997
South China University of Technology	Guangzhou, China

EXPERIENCE

Institute of Paper Science and Technology (IPST)	Atlanta, GA
Research Assistant	01/2006- present
<ul style="list-style-type: none">• Fiber Modification via Starch Grafting with Zirconium Compounds;• Preparation and Application of Nano Starch• Filler Modification via Starch Complex Method and Spray Dry Method	
Buckman Laboratories	Memphis, TN
Graduate Intern at the R& D Department	06/2005-12/2005
<ul style="list-style-type: none">• Fiber Modification via Enzyme Treatment• Application of Special Chemicals for Improved Tissue Softness• Evaluation of Performance of New Generation Wet Strength Agents	

University of Washington

Seattle, WA

Research Assistant

09/2003-05/2005

- Characterization of surface energetic properties of wood fibers
- Relationship of single fiber wetting behavior to performance of resin adhesives in wood pulp fiber-polymeric composite structures (for Forest Research Institute, New Zealand)

AVEBE (Netherlands) Starch Shanghai Co., Ltd

Shanghai, China

Technical Service Engineer at the Paper Industry Department

12/2002-09/2003

- Responsible for Technical Service for more than 10 paper mills, including UPM (Changshu), Stora Enso (Suzhou), APP (China), Chenming (Shandong)
- Low Basis Weight Coating (LWC) Trial in UPM (Changshu) Paper mill
- Wet-end Optimization Trial in Stora Enso (Suzhou) & APP (Ninbo Zhonghua) paper mill

China National Pulp and Paper Research Institute

Beijing, China

Research Engineer

07/1997 – 12/2000

Supervisor of Laboratory of Printing & Writing Paper Grades

01/2001 – 12/2002

- Developed Low Basis Weight Newsprint --- for Nanpin Paper mill, Fujian Province
- Developed Super Calender (SC) paper and Directory paper --- for Quanlin Paper Company
- Conducted Mill Trial of Surface Pigmenting of Paper (Slight Coating) --- for Shandong Chenming Paper
- Conducted Mill Trails for upgrade of Copy Paper & Offset paper --- for Shandong Sun Paper Mill
- Studied the Application of Carboxymethyl Starch (CMS) --- for Ganshu Lanxin Company
- Evaluated the potential of mineral fiber as papermaking filler --- for Yunan Nonmetal Mineral Institute
- Investigated performance of AKD on bleached wheat straw pulp and the papermaking potential of wheat pulp for high quality Printing and Writing Grades
- Developed high strength and moisture-proof fluting Paper, wear-resistant paper, and high bulkiness paper

PUBLICATIONS

- Delong Song, Yulin Zhao, Yulin Deng, “ Surface Modification of Fiber via Starch Grafting with Zirconium Compounds”, 2008 (to be submitted)
- Delong Song, Yulin Zhao, Yulin Deng, “Preparation and Application of Nano Starch in Papermaking”, 2008 (to be submitted)
- Delong Song, S. Kuang and R. Zhang, “Study on the Manufacture of Low Basis Weight Newsprint”, China Pulp & Paper, 21(5):1, 2002
- Delong Song, R. Zhang and W. He, “Manufacturing technologies and market demands for wear-resistant paper on laminated flooring”, CHINA PULP & PAPER INDUSTRY 23(8):32, 2002
- S. Kuang, Delong Song and R. Zhang, “Application Experiment of Carboxymethyl Starch (CMS)”, China Pulp & Paper, 19(2):1, 2000
- Delong Song, R. Zhang and S. Kuang, “Potential of wheat straw pulp for manufacturing high quality paper ”, Proceedings of China National Pulp and Paper Research Institute, 2000