# Jun Fang

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**SUMMARY**

* 30 years of experience in water and wastewater treatment. Extensive knowledge of wastewater treatment physiochemical and biological processes and always staying on top of the emerging and advanced technologies in wastewater treatment. Strong knowledge of DC Water’s policies, procedures, codes, and safety requirements.
* Proved record of strong leadership in collaboration with Engineering departments and consultants in DC Water’s capital improvement projects in all aspects from planning, design, construction, quality control, scheduling, commissioning to project close-out.
* Responsible experience in supervising the works for the startup, training, optimization, troubleshooting, and operation and maintenance of treatment processes and facilities.
* Excellent in providing detailed interdisciplinary reviews on complex design drawings, specifications, process control strategies, product data, shop drawings, request for information, change orders and other submittals.
* Conversant with the permitting process and various federal and state regulations and industry standards related to water environment.
* Outstanding planning, analytical, writing, communication, and organizational skills.

**EDUCATION**

* University of Missouri-Columbia, Ph.D. in Civil and Environmental Engineering 2007
* China University of Mining and Tech, M.S. in Chemical & Environmental Engineering 1996
* Anqing Normal University, B.S. in Chemistry 1992

**PROFESSIONAL EXPERIENCE**

**District of Columbia Water and Sewer Authority (DC Water), Washington DC** 04/2016 – Present

**Process Engineer II, Department of Wastewater Treatment/Process Engineering**

* Provide leadership in collaboration with Wastewater Engineering and consultants in capital improvement project management in all aspects from planning, design, construction, quality control, scheduling, startup, commissioning to project close-out. Major projects include
  + Tunnel Dewatering Pump Station and Enhanced Clarification Facility
  + Filtrate Treatment Facility,
  + Reclaimed Final Effluent Pump Systems Upgrades (On-going)
* Identify and resolve problems and conflicts associated with contract work; Recommend modifications to contract scope of work and/or enforcement of contract language.
* Perform detailed interdisciplinary reviews on complex design drawings, plans, specifications, project schedule, product data, shop drawings, request for information, service manuals, as-builts, and other submittals.
* Provide engineering support for DC Water Blue Plains Wastewater Treatment Plant, evaluate the effectiveness and efficiency of all treatment processes, and develop and implement procedures and methods to control and optimize plant performance.
* Compile monthly Discharge Monitoring Report and communicate with EPA, local government agencies and other stakeholders as needed for regulations, permitting, and process performance and data interpretation. Prepared recent permit renewal application package.
* Conducted asset management criticality analysis and condition assessment on all the vertical assets at Blue Plains.

**Delon Hampton and Associates, Chartered, Washington DC** 03/2008 - 03/2016

**Engineer IV**

* Served as a task leader on Operation and Maintenance Assistance Program contract for DC Water in reviewing design and contract documents and assisting construction management. Provided engineering input in support of capital improvement projects, including:
  + Main and O Pump Stations Upgrades
  + Nitrification and Denitrification Facilities Upgrades
  + Enhanced Nitrogen Removal Facilities – 1C
  + Enhanced Nitrogen Removal Facilities – 2C
  + Enhanced Nitrogen Removal – North, Secondary Treatment Facility Upgrades
  + Biosolids Management Program Main Process Train
* Acted as a project lead in performing commissioning, start-up, and operational demonstration for Enhanced Nitrogen Removal Facilities at DC Water. Coordinated the evaluation of construction contract performance, acceptance tests, and turnover of the rehabilitated and new processes.
* Principal author of twelve operation and maintenance manuals for DC Water Sewer Pump Stations and Wastewater Treatment Facilities. Led the team to deliver operation and maintenance training packages and classes to plant operators. Compiled standard operation procedures for different treatment facilities.
* Captained the buildup of Livelink, an enterprise dynamic engineering document management system for DC Water capital improvement projects.

**University of Missouri-Columbia, Missouri** 02/2002 – 12/2007

**Research Assistant**

* Conducted profound research on projects funded by US National Science Foundation and Department of Energy including removal of arsenic from drinking water and chromate recovery from toxic waste stream.
* Edited proposal for investigating the fate and transport of mercury species in natural wetland system.
* Prepared technical reports and published over ten papers on prestigious journals.
* Mentored four entry-level research assistants on process optimization of water treatment pilot studies.

**CERTIFICATION**

* Professional Engineer, District of Columbia
* Professional Engineer, Maryland