

Matthew Yakush

Chemical Engineer

Wilmington, DE - Email me on Indeed: [indeed.com/r/Matthew-Yakush/223e40b9f1db51e1](https://www.indeed.com/r/Matthew-Yakush/223e40b9f1db51e1)

WORK EXPERIENCE

Estimator/Estimating Engineer

E.I. du Pont de Nemours and Company (DuPont) - Wilmington, DE - April 2014 to Present

- Produce estimates for all levels of front end loading (FEL) for projects with capital expenditures up to \$50MM
- Lead estimating on projects totaling over \$200MM both domestically and internationally
- Lead estimate and capital reviews with business leadership to gain full-funds authorization
- Collaborate with multi-functional teams to develop detailed scope and business objectives for capital and non-capital projects
- Provide cost estimates for field materials, labor, engineering, and construction across all DuPont businesses including polymers, food grade additives, agriculture, and electronics
- Utilize Aspen Capital Cost Estimator to generate direct costs for electrical, instrumentation, and equipment
- Validate contractor estimates for accuracy and alignment with DuPont's best practices
- Drive continuous improvement by updating and maintaining global core estimating standards: Escalation Calculator, Estimate Reconciliation Workbook and Estimating 101 training

Chemical Engineer

E.I. du Pont de Nemours and Company (DuPont) - Wilmington, DE - June 2012 to April 2014

- Led R&D scale-up campaigns of OLED products from material ordering and planning through qualification of product. Performed product cost analyses for rapid commercialization of materials
- Lead technical expert for developing technology transfer packages. Demonstrated and verified OLED product scale-up at contract manufacturers
- Scale-Up lead in DuPont Integrated Business Management meetings. Gave monthly updates of supply and demand of OLED products along with future production to business leaders.
- Performed laboratory synthesis scale-up and process optimization utilizing pilot-scale process equipment for high value specialty chemicals to reduce cost of manufacturing and improve product quality
- Optimized 22L vacuum distillation columns and successfully implemented at semi-works manufacturing facility.
- Drafted SOPs, PSM documentation, and New Employee Training Package

Chemical Development Intern

Boehringer Ingelheim Pharmaceuticals - Ridgefield, CT - June 2010 to August 2011

Year 2

- Designed and optimized a continuous flow process for a pharmaceutical intermediate synthesis using an Ehrfeld microreactor and LabVision software

Year 1

- Applied Raman Spectroscopy as a process analytical technology (PAT) in order to in-line monitor polymorph changes during crystallization of active pharmaceutical ingredients (APIs)

Referee

Newtown Soccer Club - Newtown, CT - March 2002 to June 2010

- United States Soccer Referee

EDUCATION

Masters of Science in Chemical Engineering

Villanova University - Villanova, PA
2013 to 2015

Bachelors of Science in Chemical Engineering

Villanova University - Villanova, PA
2008 to 2012

SKILLS

Excellent written and verbal communication skills. Strong creative problem solving and analytical skills. Proficient with Microsoft Word, Excel, PowerPoint, and Frontpage. Proficient in Aspen, MathCAD, Solidworks, and some MatLab

AWARDS

Engineering Recognition Award

November 2013
Recognition Award for large scale monomer campaign – DuPont Displays - 2013

CERTIFICATIONS

Green Belt Six Sigma

April 2014 to Present
Purification optimization for OLED products

Project Team Leadership Academy

May 2015 to Present
DuPont Project Team Leader week long training course