2015 – 2016 Ph.D. Science & Engineering Positions

1) Synthetic Organic Chemistry – Crop Protection – Newark, DE
2) Polymer Chemistry – Performance Polymers – Various
3) Polymer Engineering – Performance Polymers – Various
4) Rheology – Corporate Center for Analytical Sciences – Wilmington, DE
5) Macromolecular Characterization – Corporate Center for Analytical Sciences – Wilmington, DE
6) Particle and Colloid Scientist – Corporate Center for Analytical Sciences – Wilmington, DE

Instructions

Attached are the positions that we are actively recruiting for over the Fall recruiting season. Please apply individually to all the positions that you believe you are qualified for. The instructions on how to apply are in the individual postings: 1) The resume needs to be emailed (dupont@nc3.com) with an indication on the school and which position and 2) All candidates must apply at dupont.com/careers (see links).
Ph.D. Scientists/Engineers (Entry Level) – Synthetic Organic Chemistry

Description:

The Crop Protection business is an R&D based business, dependent upon the introduction of new products to deliver a competitive advantage in the agrochemical industry. DuPont Crop Protection has maintained its position as a global leader in the marketplace through its discovery and development of innovative new products such as chloranthraniliprole, oxathiapiprolin, and indoxacarb. The leading industry association, AGROW, has recognized our R&D pipeline as the best in the industry. Crop Protection Research & Development, Discovery Chemistry employs synthetic organic chemists to design and synthesize new high-performance crop protection molecules from diverse sources that may lead to new Crop Protection products.

DuPont has an immediate opening for an entry-level, motivated synthetic organic chemist at DuPont Crop Protection's Stine-Haskell Research Center in Newark, DE. We are seeking a Ph.D. chemist with strong grounding in synthetic organic chemistry to participate in the design of new high-performance crop protection products. The successful candidates will have experience in the design & synthesis of complex organic molecules coupled with a solid knowledge of modern separation methodologies and spectroscopic identification techniques. The ability to collaborate effectively with an interdisciplinary team of scientists is essential, as successful candidates will work closely with biologists, computational chemists, biochemists, toxicologists, and regulatory scientists in the discovery process.

The successful candidate will work under the general direction of a Research Manager to establish research goals and objectives, will have the ability to lead the chemistry aspects of a discovery program, and will demonstrate the ability to align research objectives with corporate, business and R&D strategies and goals.

Qualifications:

- Ph.D., Organic Chemistry Required
- Post-doctoral experience preferred
- Expert in the design & synthesis of complex organic molecules
- Strong proficiency in both classical and modern synthetic methods
- Solid knowledge of modern separation methods (e.g., MPLC, HPLC) and characterization techniques (e.g., NMR, mass spectrometry, IR)
- Demonstrated ability to effectively collaborate with interdisciplinary teams of scientists
- Strong oral and written communication skills.
- Demonstrated ability to effectively develop and test hypotheses and rapidly determine the feasibility of proposed ideas.

How to Apply:

Step 1: Submit resume to: dupont@nc3.com

In the email subject, indicate “name of your school” – “discipline”


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Ph.D. Scientists/Engineers (Entry Level) – Polymer Chemists

Description:

DuPont is a global company of people who make a difference in everyday life. Our core values are safety and health, environmental stewardship, highest ethical behavior, and respect for people. They are the cornerstone of who we are and what we stand for. Our vision is to be the world’s most dynamic science company, creating sustainable solutions essential to a better, safer and healthier life for people everywhere. Our scientists work in research and development functions that range from basic and long term research supporting the business units to short term research for new product development. DuPont offers you endless possibilities to use all of your professional and interpersonal skills to help us create the future together.

As a Research Investigator, you will function as a part of a research and development team, utilizing your knowledge of structure property relationship, chemical synthesis and formulation science to conduct designed experiments, data analysis, and utilize broad range of test methods to accomplish project goals. You will routinely face challenges requiring excellent problem solving and decision making skills. You will be expected to interpret and analyze results, recognize erroneous or unexpected results, and make suggestions for the path forward based on your analysis and conclusions.

Candidates must have a strong work ethic, work well in team environments, and conduct their work in a safe and efficient manner. Major responsibilities may include: organic and inorganic wet chemistry synthesis, materials/chemical process development, product formulation, raw material screening, method development, device fabrication, analytical testing, cross-discipline problem solving, statistical analysis of data, patent filing, writing research reports and presentation to internal and occasional external project teams. The candidate will be required to interact with internal research, marketing, and production organizations as well as external suppliers and customers. The candidate will be expected to be able to direct the activities of one or more technicians. This position reports to a Research Manager and may require approximately 10% travel (domestic and international). DuPont Performance Polymers is a global business and the successful candidate will be part of a global technology team working with colleagues in other regions and serving customers and markets worldwide.

Qualifications:

- Ph.D. in chemistry, materials science or closely related field
- Polymer experience preferred
- Creative problem-solving skills
- Ability to work in a team and independently
- Experience in experimental methodology and the use of statistical data analysis tools
- Demonstrated strong technical writing skills
- Excellent oral and written communication skills
- Demonstrated ability to self-manage time and resources to get results

Locations: Wilmington, DE; Shanghai, China; Meyrin, Switzerland; Utsunomiya, Japan

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Ph.D. Scientists/Engineers (Entry Level) – Polymer Engineers

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Qualifications:

- Ph.D. in chemical engineering, materials engineering or closely related field
- Polymer experience preferred
- Creative problem-solving skills
- Ability to work in a team and independently
- Experience in experimental methodology and the use of statistical data analysis tools
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Ph.D. Scientists/Engineers (Entry Level) – Rheology Research Scientist

Description:

DuPont’s Corporate Center for Analytical Sciences in Wilmington, DE, is in search of a Research Scientist with the ability to characterize macromolecules and colloids. The successful candidate will join the team of Rheology experts in working on critical technical solutions for DuPont. The primary role will be to provide technical expertise within an experimental laboratory specializing in characterization material properties of synthetic and biological polymers, colloidal dispersions, suspensions in dilute to concentrated solution or melt form, with an ultimate goal of establishing structure/properties/processing relationships in support of new material development. Technical skills and competency in one or more of the following areas are required: physical chemistry, colloid and polymer science. Successful candidates will be expected to produce Integrated Solutions to technical problems collaborating with scientists who are using multiple analytical technologies across the organization.

Qualifications:

- PhD in Chemical Engineering, Physical Chemistry, Polymer Science or Material Science with proven capabilities in rheological characterization. Ability to apply existing technologies and develop and document new measurement methodologies is a requirement.

- Requires leading projects, guiding and interacting with lab staff and collaborating with other scientists in a team environment across CCAS and CR&D to solve complex characterization challenges. Basic understanding of additional analytical techniques such as thermal analysis, SEC, microscopy, NMR and x-ray analysis is required.

- Solid knowledge of characterization of rheological properties of a diverse portfolio of material classes relevant to various long term research programs, Business R&D and Manufacturing

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Ph.D. Scientists/Engineers (Entry Level) – Macromolecular Characterization (MMC)

Description:

DuPont’s Corporate Center for Analytical Sciences in Wilmington, DE, is in search of Research Scientist with the ability to characterize macromolecules and colloids. The successful candidate will join the team of MMC experts in working on critical technical solutions for DuPont. The primary role will be to provide technical expertise within an experimental laboratory specializing in characterization of synthetic and biological polymers, biological structures and polymer-particle conjugates in dilute solution/c form, with an ultimate goal of establishing structure/properties/processing relationships in support of new material development. Technical skills and competency in one or more of the following areas are required: physical biochemistry, polymer science, light scattering. Successful candidates will be expected to produce Integrated Solutions to technical problems collaborating with scientists who are using multiple analytical technologies across the organization.

Qualifications:

- PhD in Physical Biochemistry, Polymer Science or Material Science with proven capabilities in polymer and biopolymer characterization. Ability to apply existing technologies and develop and document new measurement methodology is a requirement.

- Requires leading projects, guiding and interacting with lab staff and collaborating with other scientists in a team environment across CCAS and CR&D to solve complex characterization challenges. Basic understanding of additional analytical techniques such as thermal analysis, rheology, microscopy and x-ray analysis is required.

- Solid knowledge of characterization of proteins and other biopolymers and biological structures using spectroscopic and light scattering approaches, as well as separation techniques including ion exchange chromatography, capillary electrophoresis and various field flow fractionation methods.

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Ph.D. Scientists/Engineers (Entry Level) – Particle Scientist

Description:

The DuPont Corporate Center for Analytical Sciences (CCAS) is seeking a multidisciplinary expert with a background in polymer, colloid and interfacial science to support DuPont R&D and business problem solving. The position oversees a laboratory serving as a resource in particle and complex material characterization for the entire DuPont Company. Particle characterization includes size distribution measurements, surface chemical analyses, wetting, surface energy, adsorption studies, and an understanding of potential particle transformation pathways. The ideal candidate would have a breadth of understanding of materials science and chemical/biological process engineering to interpret the characterization measurements in terms of the R&D needs of a wide range of DuPont businesses.

This exciting and challenging position in the Corporate Center for Analytical Sciences is integral to our commitment to provide analytical science expertise to the DuPont Company. This position will require a creative individual who can apply materials and process knowledge in order to identify and solve problems in alignment with project objectives.

The responsibilities of this position include:

- Overseeing laboratory operations, including safely and efficiently providing measurements using commercially available instruments.
- Performing scientific studies to guide particle dispersion in colloidal systems, polymer matrices, and other complex fluids.
- Interfacial studies related to wetting, surfactancy, emulsification, and surface adsorption.
- Characterizing nano-particle materials with respect to their physical and chemical properties, as they relate to product performance, environmental fate, and occupational health issues. Providing nano-particle metrology technical guidance to external science & regulatory policy discussions.
- Consultation to and collaboration with interdisciplinary scientists across DuPont to provide solutions to problems in DuPont businesses through particle characterization studies.

Qualifications:

- Ph.D. in Physical Chemistry, Bio-materials, Materials Science & Engineering, Chemical Engineering, or closely related science/engineering discipline.
- Experience with particle and surface/interfacial chemical characterization.
- The ability to relate particle characterization metrics to chemical engineering process steps.
- Excellent verbal and written communication skills. Strong networking skills.
- Ability to contribute or collaborate effectively in a cross-disciplinary team environment & lead a project/task team.
- Ability to manage and prioritize multiple tasks. Results oriented with ability to solve problems.
- Ability to effectively monitor and direct the work of others and mentor others.

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