

Data Scientist to Begin Working in 2022 --[Apply](#)

Collaborate with Innovative 3Mers Around the World

Choosing where to start and grow your career has a major impact on your professional and personal life, so it's equally important you know that the company that you choose to work at, and its leaders, will support and guide you. With a diversity of people, global locations, technologies and products, 3M is a place where you can collaborate with 96,000 other curious, creative 3Mers.

The Impact You'll Make in this Role:

Data Scientists at 3M research and develop new technologies and approaches in AI. We explore areas of machine learning, reinforcement learning, speech science, deep learning, natural language processing, and computer vision technologies that enable new opportunities for our businesses and customers. At 3M, our data scientists develop digital solutions for manufacturing, help create new unique 3M materials and enable new process capabilities.

Here, you will make an impact by:

- Conducting research on emerging algorithmic approaches to Data Science and reporting your results to the larger AI community at 3M
- Leveraging expertise to develop and lead new data analytics technologies for product development or for manufacturing systems
- Collaborating with research teams in corporate research and business labs to build capabilities and applications to solve emerging challenges
- Assisting with the design and creation of software applications as a member of a cross-functional team of software developers, engineers, and scientists
- Collaborating with other team members on data analysis workflow, data pipelines, analysis techniques, and opportunities for model improvements
- Filing patent applications, publishing, and presenting at conferences

Your Skills and Expertise

To set you up for success in this role from day one, 3M is looking for candidates who must have the following qualifications:

- Currently possess or are in the final year of pursuing a Ph.D. degree in a science or engineering discipline from an accredited institution

Additional qualifications that could help you succeed even further in this role include:

- Currently possess or are in the final year of pursuing a Ph.D. degree or post-doctoral fellowship in Computer Science, Machine Learning, Electrical Engineering, Data Science, Cognitive Science, Computational Linguistics, Software Engineering, Applied Physics, Applied Mathematics, or related discipline from an accredited institution
- Training and/or experience in deep learning, machine learning, natural language processing, speech recognition, natural language understanding, data science, computer vision, artificial intelligence, or statistics, through thesis work, internships, or industry or national lab employment
- Experience with research projects in areas of interest to 3M: computer vision, manufacturing processes, machine learning applied to product design and development, materials sciences, reinforcement, and causal-based AI
- Experience with Azure and AWS cloud services and data analytics tools
- Experience in the generation, collection, and analysis of materials data
- Strong scientific and technical acumen, with demonstrated interest and ability to make connections between science/technology and real-world concerns
- Ability to deal with the ambiguity of early stage scouting and evaluation of new opportunities and the flexibility to change direction as additional information becomes available
- Demonstrated scientific excellence as evidenced by publications and presentations
- Strong performance working in a team environment

Travel: May include up to 10% domestic/international

Relocation Assistance: May be authorized

Responsibilities of this position may include direct and/or indirect physical or logical access to information, systems, technologies subjected to the regulations/compliance with U.S. Export Control Laws.

U.S. Export Control laws and U.S. Government Department of Defense contracts and sub-contracts impose certain restrictions on companies and their ability to share export-controlled and other technology and services with certain "non-U.S. persons" (persons who are not U.S. citizens or nationals, lawful permanent residents of the U.S., refugees, "Temporary Residents" (granted Amnesty or Special Agricultural Worker provisions), or persons granted asylum (but excluding persons in nonimmigrant status such as H-1B, L-1, F-1, etc.) or non-U.S. citizens.

Senior Researcher to begin Working in 2022 --[Apply](#)

The Impact You'll Make in this Role:

As a Senior Researcher you will have the opportunity to tap into your curiosity and collaborate with some of the most innovative and diverse people around the company. You will develop and advance 3M's 51 technology platforms, used to create new products to solve customer problems across many business segments and end markets.

At 3M, you will advance key materials and process technologies that include:

- Nanomaterials, metamaterials, advanced composites, biomaterials, optical coatings, and adhesives
- Microreplication, additive manufacturing, advanced robotics, nonwovens, polymer processing, chemical processing, precision coating, surface modification, and analytical sciences
- These technologies are leveraged across products that include medical respirators; oral care composites; air, water and biopharmaceutical filtration; optical display films; reflective signage and safety apparel; and industrial, consumer, and medical adhesive tapes. 3M offers over 55,000 products that are helping customers in end markets such as consumer electronics, medical care, industrial manufacturing, and safety products.

Here, you will make an impact by:

- Inventing technologies and capabilities that create and enable new products and product platforms
- Communicating results through high quality technical reports, presentations, publications, and patent applications
- Monitoring advances in field of expertise and maintain awareness of competitive technologies
- Collaborating with global research teams across the company

Your Skills and Expertise

To set you up for success in this role from day one, 3M is looking for candidates who must have the following qualifications:

- Currently possess or are in the last year of pursuing a Ph.D. Doctoral program, or a Post-Doctoral fellowship, in science or engineering from an accredited institution

Additional qualifications that could help you succeed further in this role include:

- Expertise in at least one of the following: mechatronics, metamaterials, optical materials, precision patterning and coating, adhesives, polymer physics, polymer processing, emulsion polymerization, radiation curing, polymer synthesis, organic synthesis, chemical process design, high throughput chemistry, computational chemistry, materials informatics, polymer characterization, rheology, mass spectrometry, optics, atomic force microscopy, nanomechanical characterization, spectroscopy, flow simulation, viscoelastic fluid mechanics, computational fluid dynamics, data analytics, bioanalysis, molecular biology, biochemistry, gene expression, immunology, microbiology, wound healing
- Highly skilled in data analysis and the use of designed experiments
- Strong scientific and technical acumen, with demonstrated interest and ability to make connections between science/technology and real-world concerns
- Strong problem-solving abilities
- Ability to deal with the ambiguity of early stage scouting and evaluation of new opportunities and the flexibility to change direction as additional information becomes available
- Demonstrated scientific excellence as evidenced by publications and presentations
- Demonstrated leadership and networking skills
- Self-motivated and self-directed
- Excellent communication skills (oral, written and presentation)

Travel: May include up to 10% domestic/international

Relocation Assistance: May be authorized

Responsibilities of this position may include direct and/or indirect physical or logical access to information, systems, technologies subjected to the regulations/compliance with U.S. Export Control Laws.

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