



QD Solar is an early-stage, well-funded, fast-moving company commercializing cutting-edge quantum dot (QD) solar cell technology out of Professor Ted Sargent's lab at the University of Toronto. Our mission is to become a world leading provider of photovoltaic (PV) products. Our new solar technology captures the energy in regions of the sun's infrared spectrum which silicon cells cannot harvest. Low-cost manufactured infrared solar cells will integrate with conventional silicon solar cells to increase the total power generated by these hybrid solar panels by more than 20%. Our core technology is based on nanometer-sized semiconductor particles which are processed from solution, are compatible with high-throughput, cost-effective roll-to-roll processing technologies. Our colloidally stable quantum dots are inorganic thus inherently more light- and air-stable than polymers.

QD Solar is seeking driven, passionate, self-motivated and enthusiastic R&D team members to join us as we bring our game-changing solar technology to market. Our R&D team is located in the heart of Toronto, Ontario, Canada. Candidates must be legally eligible to work in Canada. Interested candidates are encouraged to send a full CV and a list of at least 3 professional references to careers@qdsolarcinc.com.

QD Solar Synthetic Organometallic Chemist

We are looking for a dynamic Synthetic Chemist with outstanding technical skills, work ethic and ingenuity to join the core of our team and help build the future of solar technology

Responsibilities:

- Reporting directly to the CTO, you will be part of the R&D team to develop the hybrid solar technology.
- You will lead the efforts to scale-up the processes to synthesize our colloidal quantum dots and the preparation of the solar ink formulation.
- You will implement strict quality control throughout the chemical processes.
- You will work with the solar cell R&D team members to optimize the solar ink formulation for solar cell performance.
- You will be the interface between our R&D team and our industry partners and external vendors for the solar ink formulation and chemicals. You will lead the logistics and tracking of materials supply chain.

Requirements:

- You have at a minimum a BSc or MSc in Chemistry, Chemical Engineering, Nanotechnology Engineering or Materials Science.
- You have 3+ years of experience in the synthesis and analysis of inorganic and organometallic nanomaterials.
- You are familiar with handling air and moisture-sensitive chemicals
- You are an expert in using chemical process equipment, colloidal synthesis setups and chemical analytics. You have excellent communication skills within an R&D team, industry and suppliers.
- You excel in data analysis and are familiar with data and inventory tracking.
- You are a self-motivated person who aims to succeed in a fast past and demanding environment.