TCPoly, Inc.
Applications Engineering Intern - 3D Printing
Johnson City

About
Founded in 2016 by two Georgia Tech PhD Students, TCPoly makes advanced composite materials for 3D printing including the world’s first high thermal conductivity 3D printing filament. The company vision is to enable high volume additive manufacturing through functional materials. TCPoly is funded by Engage Ventures, the Georgia Research Alliance and the Department of Energy through the Innovation Crossroads program at Oak Ridge National Labs.

TCPoly focuses on the materials science that enables 3D printing of functional parts whereas many other 3D printing companies focus on the 3D printing hardware. This distinction enables us to take advantage of commercially available 3D printers to focus on the development of innovative materials and printed products.

Intern roles and responsibilities
The intern will be responsible for 3D printing customer prototypes using TCPoly 3D printing materials. The intern will directly interact with senior leadership and customers to ensure printed part quality and timely delivery of customer prototypes. The intern will also be responsible for printing demo parts for marketing and sample parts for thermal and mechanical testing.

Required qualifications
Independent worker with experience in plastics 3D printing and preparing CAD files for printing. Ability to troubleshoot and work through complex tasks independently. Willing to be hands-on and find creative solutions to problems. Pursuing a bachelor’s degree in Mechanical Engineering, Materials Science and Engineering, or related. Ability to effectively communicate technical topics.

Preferred skills
Knowledge of heat transfer and having completed related coursework, experience with 3D modeling software including Solidworks. Past work experience relating to heat exchangers, electronics thermal management, or mold tooling applications. Aptitude for fixing and designing electronic systems and ability to utilize data acquisition hardware and software (such as LabVIEW) to perform heat transfer or related experiments.