

CYTEC ENGINEERED MATERIALS - 1708-R2

Applications Development/Research Engineer or Sr. Research Engineer (Anaheim, CA)

Cytec Industries (Headquarters - NJ, www.cytec.com) is a 6,000 employee, \$1.4 billion dollar multinational chemical company. Formerly a division of American Cyanamid, a \$5 billion dollar pharmaceutical/agricultural company, Cytec spun off to assume their own identity in 1993. They have multiple manufacturing locations (25) worldwide along with various joint ventures. They produce a wide variety of specialty and building block chemicals serving a broad group of end users including aerospace, plastics, coatings, mining, paper, water treatment and automotive industries.

Cytec Engineered Materials formerly Cytec-Fiberite is the consolidation of two global leaders in advanced materials supplying primarily to the global aerospace industry. Cytec Engineered Materials has 1,300 employees with 8 manufacturing plants. Cytec Engineered Materials is headquartered in Tempe, Arizona. They have facilities located in Winona, MN- Havre de Grace, MD - Greenville, TX - Orange and Anaheim, CA - Rock Hill, SC - Greenville, SC - Wrexham, Wales and Oestringen, Germany.

Cytec Engineered Materials (CEM) is looking for an **Applications Development/Research Engineer or Sr. Research Engineer** to work at their **Anaheim, CA** location. This Business Unit is a leading high performance material supplier of composite products for aerospace, recreational and industrial applications. CEM is recognized as the key material supplier to the Military, for F-22, F-18E/F, C-17 and future Joint Strike Fighter Program, supports numerous Satellite and Space Station Programs, does about 30% of its business in the commercial aerospace market, Boeing. (Main Customer.) Cytec utilizes technology based manufacturing processes and a passion for continuous improvement efforts using Lean and Six Sigma tools.

The **Applications Development/Research Engineer or Sr. Research Engineer** will be expected to assume more of a lead role in managing projects that are assigned –should have experience in scoping, planning, and execution of R&D projects versus being just a team member. The ideal person must have in-depth knowledge of resin systems, fibers and composites used for aerospace applications. A key requirement for this position is hands on experience with composite manufacturing processes such as RTM, RFI, VARTM, etc. This person should have a solid understanding of processing parameters involved in making composites such as rheology, curing cycles, and tooling concepts and materials. This is a challenging process development position that requires thinking “out of the box” and designing experiments to develop processes for customer applications.

SPECIFICATIONS:

- 3 + years composite materials manufacturing experience at a minimum.
- Significant experience in developing and/or supporting manufacturing processes for composite materials (Resin Infusion, RTM, VARTM automated processes). Must have experience with at least one of these processes.
- Experience, knowledge, or training in composite part fabrication.
- Demonstrated experience with general laboratory practices and the steps required going from raw materials to coupons/parts for testing.
- Demonstrated experience providing insight into manufacturing processes, track emerging technologies, and provide recommendations on directions of research.
- Aerospace, Aircraft, Government Agency experience highly desired.
- Able to balance/handle multiple projects/assignments. Need someone who can easily adapt to changes on short notice and not get overly frustrated with these quick changes.
- Technical flexibility – open to other ideas and methods – will listen to other opinions; participate in brain storming sessions to figure out the best way of doing things.
- Thirst and desire to learn new technology. Willing to take on projects outside current knowledge base.
- Presentation Skills are a must. - Able to present technical results to clients.
- Strong interpersonal skills – able to communicate effectively with all levels of the organization..
- BS Degree is must (Engineering, Materials Science or Mechanical degree)

SALARY:

\$60-85K depending upon experience.

BENEFITS: Company offers a cafeteria-style benefits package. HMO, or Network plans, 2 Dental and a Vision Plan, Basic Life Insurance, Short Term Disability and 401K, etc. Will provide relocation package for the ideal candidate.

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It is important for this person to be able to interact with Cytec's customers to understand their existing part fabrication processes and utilize this understanding to develop new products and processes to reduce manufacturing cost and increase part performance. To that end he/she will be involved with developing new/lower cost composite materials and processes, including resin film infusion, resin transfer molding, out-of-autoclaves processes, and thermoplastic forming and bonding techniques. Several projects in these areas are already being executed and this person is expected to get involved in some of them from day one.

History of Dept.: This group was originally made up all Chemists whose focus was on resin formulation (Main research initiative), as time has gone by they have become more and more involved with partnership programs with customers that required them to bridge chemistry and engineering this resulted in projects that are much less formulation intensive and much more processing and engineering intensive. Because of that they split the group in 1/2, now the Chemist are focusing on materials and formulation development and they've added a separate applications engineering group who is more focused on the applications and process development side. As a new initiative, it's been determined that they need to add staff (Applications Development Engineer.)

This position requires less than 10% travel, between Cytec plants and their customers (Boeing, Lockheed, Northrop, major government agencies, etc. – 2-3 day trips once a month- TX, Seattle, East Coast, etc.), as well as some international travel as required/needed. (Mainly the U.K. – 1-2 times per year).