

James F. Reilly

OBJECTIVE

I seek a position where I can use my polymer science, computer, training and technical experience to develop and motivate groups in solving real plastic industry problems. I want to work with people that enjoy solving technical problems by extracting the most out of new technologies. I desire to join a group of those individuals who find it exciting to apply innovations that make technology practical and easy to implement.

Salary Expectations: 85K/yr

Description of my perfect job:

My ideal job would be managing a troubleshooting/research or production department. Rheology, design of experiments, formulations, ultra-sonics, in-line, on-line rheometry and practical research and development would be on-going tasks. Continuing education would be the norm. An interdependent team would analyze problems and execute an interactive solution. I would be involved in SPE ANTEC, perhaps ASTM to keep abreast of the polymer industry developments and showcase the team and companies efforts.

Career Level: Management (Manager/Director of Staff)

Date of Availability: From 1 to 2 months

TARGET COMPANY

Category: Manufacturing and Production, R&D

Description of my ideal company:

My ideal company would be a Polymer resin manufacturer, leading edge production/compounding facility or OEM supplier having challenging technical issues. Frequent visits to and from customers with a high emphasis on quality. It should have a reasonable budget for continuous improvement and be well managed.

TARGET LOCATIONS

Relocate: Yes

US-MA-Boston South US-MI-Detroit US-NY-Syracuse

US-GA-Atlanta

WORK STATUS

US Citizen I am authorized to work in this country for any employer.

EXPERIENCE

1/2000 – 6/2001 Dynisco HotRunners Gloucester, MA

Research and Process Development

Team leader in an international process development of Dynamic Feed technology. Designed, conducted and analyzed DOE trials in-house and at customer sites. Responsible for facilities management of two research based injection molding machines (300 ton CM and 185 ton HPM) and associated staff. Evaluated competitive technologies and developed test plans for various new components and customer troubleshooting. Aided in design testing and analysis of custom made hot runner manifolds elucidating the behavior of the injection molding process and restricting control valves. Extensively reviewed and tested all high pressure and high temperature pressure transducers on the market. Authored and presented ANTEC papers on some of the above mentioned subjects.

1/1991 - 1/2000 Dynisco Polymer Test Morgantown, PA

Polymer Applications Manager

Staff Rheologist, Lectured at SPE rheology courses, Dynisco extrusion seminars and numerous technical presentations for large customers. Published SPE Antec papers on various practical rheological subjects. Conducted technical training in rheology for capillary rheometers and melt indexers customers. Trained and wrote the majority of software which run these machines. Troubleshooter and problem solver. Aided in the development of new pressure transducers, optical melt probes and various on-line, in-line and at-line rheometers. Review quality procedures and SOP's. Improved equations for prediction of pressure drops in hot runner manifolds. Setup rheometers systems as an incoming inspection tool at dozens of plants (A2LA, QS9000 protocols). Taught dozens of technical people how to use rheology as an effective troubleshooting tool.

12/1989 - 1/1991 HIMONT (a.k.a. Montell) Lake Charles, LA

Lab Supervisor

Ran physical testing lab which qualified over 1 billion pounds of product for physical properties. Supervised 13 operators and an assistant. Equipment maintained and operated included two injection molding machines, 3" extruder, two Instrons, Rheometrics RDA, capillary rheometer, hardness, color, Izod, Gardner, HDT and instrumented impact. Aided in training and setup of a sister lab a bayport. Coordinated control sample gage studies and C_{pk} reviews. Presented operations at QS 9000 audits. Qualpro and other statistical training.

4/1989 - Present Polymer Concepts Marshfield, MA
Software

President

Developed and wrote custom software specific to polymer industry. Capillary rheometer analysis, time temperature shifting etc. Includes early versions of, what is now, standard products sold with the worlds largest supplier of capillary rheometers. Assorted small projects. Delphi (Pascal) 1-5 main language exposure to LabView. Occasional projects (for fun) at present.

6/1984 - 4/1989 Rohm & Haas Bristol, PA

Research Scientist

One of three in a unique Polymer Science and Technology group that ran unconventional testing and provided support to impact modifiers, PVC processing aids and core acrylics groups. Testing included high speed photography on PVC bottles from drop towers, high speed tensile impact testing, fracture mechanics testing including tear and double torsion. Consulted and assisted in major improvements in calendaring operations for acrylic sheet using custom optical sensors and software. Aided in understanding of PVC processing aids (K120ND). Instrumented injection molding machines for cavity pressure and ejector force measurement. Supervised rheological lab purchase and implementation of a much needed stress rheometer. Took an excellent in-house course "Statistics for experimenters" by S. Hunter which I still use quite often.

EDUCATION

5/1980 Rensselaer Polytechnic Institute US-NY-Troy

Bachelor's Degree

Chemist by training. Strong interest in polymers. Classes and personal assistance from Profs. Wunderlich and Sternstein. Subsequently a PhD candidate at University of Akron, where I won the Maurice Morton Award for academic excellence.

AFFILIATIONS

4/1993 - 1/2000 ASTM Task Group Chairman
4/1991 - Present SPE Member/presenter

SKILLS

Skill Name	Skill Level	Last Used	Experience
Microsoft Project	Intermediate	Currently used	1 years
Delphi 1-5	Expert	Currently used	12 years
Rheologist	Expert	Currently used	15 years
PowerPoint	Expert	Currently used	4 years
Pressure Transducers	Expert	Currently used	11 years

REFERENCES

Don DeLaney Dynisco Polymer Test V.P. R&D
Phone Number: 610-286-7555
Email Address: DDeLaney@dynisco.com
Reference Type: Professional

ADDITIONAL INFORMATION

Patents on a combination pressure transducer and plunger. ANTEC publications include: Correlation of Melt Viscosity to Solution Techniques (I.V.), Capillary Rheometry revisited, Application of Fast Fourier Transform Analysis to Melt Fractured Extrudate, Assessment of Dynamic Feed in modular tooling, On the inherent stability of a pressure controlled injection process to material variation.

Participated (vendor) and attended Prof. Chris Macosko's and Donald Baird's Rheology courses. Lecturer at SME rheology course at the University of Lowell (IPI) and Rapra conferences. Often contributed to ASTM D1238 melt indexer and D3835 capillary rheometer test methods. Ran the last ASTM D3835 round robin. Participant in various other round robins and proficiency testing, gage R&R's. Aided in ISO development of 1133 (Melt Index). Received Dynamic Feed Significant Contributor Award.