

## Contract Research and Scientific Consulting Services

### For Chemicals, Materials and Nanomaterials Industry

*Are you taking advantage of computational science to reach your goals?*

You have limited time and cash. Your needs may be in advanced characterization, process improvement, materials design and/or property optimization. You must apply the cash that you have to meet numerous challenges using the right combination of scientific expertise and technology.

#### **The Challenge**

Your in-house scientists are often fully engaged in the projects that you have set for them. They don't have the time to assess, much less implement, computational approaches to your overall design and development process. Often you can deploy specific scientific skills to solve short-term resource requirements, but cannot invest to develop and retain those resources over the long term.

#### **Our Collaborative Research Solution**







Accelrys Contract Research and Scientific Consulting Services provide extremely cost-effective, collaborative, and flexible ways for you to apply computational expertise and technology to your business-critical scientific problems under strict confidentiality.

- **Contract Research Projects:** You can engage our computational chemists and computational materials scientists to help you solve a particular problem. Our scientists have experience working on relevant materials, processes, and development projects using tools from Accelrys' industry-leading modeling and informatics portfolio.
- **Scientific Consulting:** Find out how computational expertise and technology can assist your design process with our Scientific Consulting program. Our scientist will come to your site and under strict confidentiality determine how you can best take advantage of computational methods to accelerate your design process as well as improve your return on investment in computational tools and services.
- **Computational Scientist Resource:** We recruit and place an experienced computational scientist at your research site for an agreed period; typically, one year. We provide all the software and support needed to make the maximum impact on your R&D. We work with you throughout the term to track and maximize your return on investment.

#### **Do you need to:**

- Determine ways to streamline your development process and improve productivity?
- Reduce time-consuming and costly experimental laboratory work?
- Identify key chemical interactions for enhanced property design and prediction?
- Accelerate your IP patent process through an understanding of key product design principles?

### **Extend your reach with Molecular Simulations:**

-  Understand key chemical processes better
-  Improve critical reactions
-  Accelerate materials characterization
-  Probe experimentally intractable areas
-  Design optimized property
-  Gain key insights to help direct experiments

*Accelrys' Contract Research Service team provided us the expected benefit of avoiding months of intensive laboratory screening. The modeling work provided by Accelrys also helped us to define and focus our future experiments along the most productive path for commercial and technical success. Furthermore, insights were also gained into additional technical paths that would meet our goals that were not obvious or planned for in our initial scope.*

**Roger Avakian, CTO**  
**David Jarus, R&D Manager**  
**PolyOne Corporation**

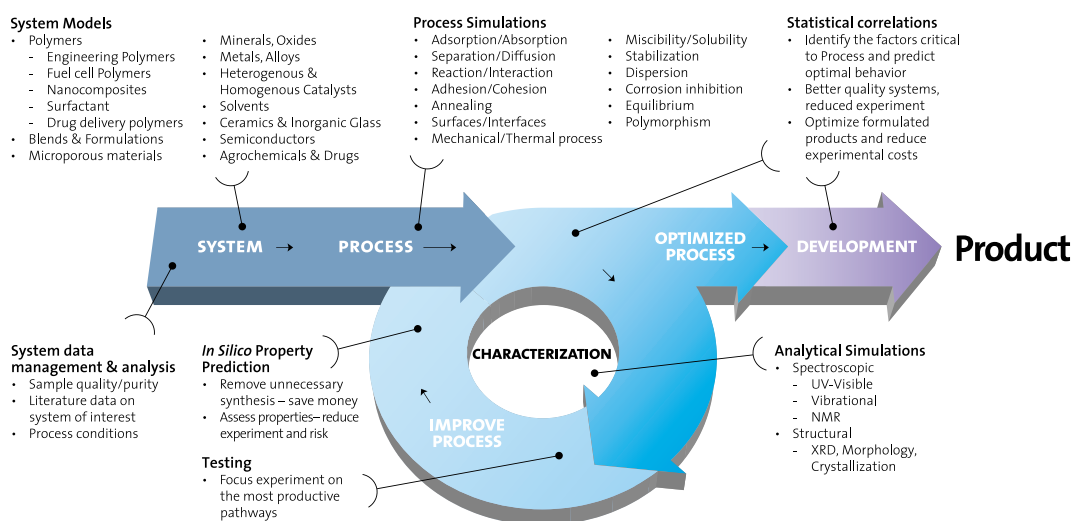
We have over ten years of experience working with chemical, fine chemical, diversified chemical, personal care, aerospace, automotive, gas & oil, nanotechnology-based industries and government labs across North America, Europe and Japan.

### Your Next Step

Please visit our website at [www.accelrys.com/services/contract/](http://www.accelrys.com/services/contract/), e-mail [contractresearch@accelrys.com](mailto:contractresearch@accelrys.com), or contact your local sales representative for more information.

### Where can we help in your design and development process?

We can handle complex systems, numerous processes, multiple characterizations, and varied data.



### Accelrys' Contract Research and Scientific Consulting Services Already at Work

Tooth Healthcare  
 Mineral Quantification  
 Battery Performance  
 Nanocomposite Design  
 Automotive Exhaust Remediation  
 Corrosion Inhibition in Printers  
 Personal Care  
 Semiconductor Properties  
 Green Chemical Synthesis

Heterogeneous Catalysis  
 Dye Compatibility in Foot Wear  
 Mechanical Properties  
 Surfactant Film Stability  
 Data Pipelining  
 Force Field Development  
 Zeolite Controlled Synthesis  
 Polymer Foam Packaging  
 Homogenous Catalysis

Mesoscale Morphology  
 Ceramic Surface Characteristics  
 Polymer Surface Adhesion  
 Paints and Coatings  
 Glass Fiber Properties  
 Fuel Cell Membrane Design  
 Glass Properties  
 Clay Composites  
 Nuclear Waste Disposal