

Optimizing drug development from candidate to commercialization

Drawing from diverse branches of chemistry, biology, physics, engineering and pharmaceutical sciences, Curia provides scientific expertise and state-of-the-art technology to solve your most complex challenges and deliver integrated pharmaceutical drug development programs from preclinical to commercial. We provide development services at locations within the United States and Europe. Our process development services are strategically located to deliver timely execution through convenient local points of contact.

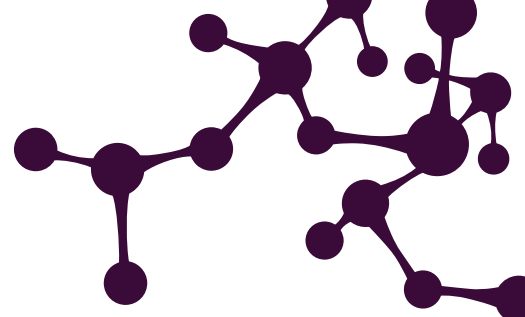
Delivering Complex Science and Expert Solutions

Chemical Process R&D

Equipped with technologically advanced process and analytical instrumentation, Curia's team of scientists supports all your chemical development needs, offering integrated, continuous service through the drug development lifecycle. We conduct rapid process development, optimize reaction conditions and scale up materials for IND-enabling studies through commercial supply.

Our offerings include:

- + Continuous flow processing up to kilo scale for faster, safer material production
- + Custom synthesis of API, intermediates, scaffolds and regulatory starting materials, including supporting synthesis of reference standards and impurity markers
- + Process safety assessment to proactively identify potential hazardous reactions
- + Rapid development to support accelerated regulatory designations
- + Experienced team in late-stage development, including critical process parameter studies to prepare for NDA filing
- + High-potency and controlled substances capabilities (Schedule I-V)
- + Specialized global team in biotransformations and fermentation



Preformulation and Material Science

Curia characterizes and modifies a drug substance's physical, chemical and mechanical properties so you can select the best solid form for progression into animal and human dosing trials.

Our customized services include:

- + Comprehensive solid-state characterization
- + Systematic solubility enhancement
- + Systematic salt screen for selection
- + Cocrystal screen for selection
- + Polymorph screening
- + Crystallization process troubleshooting and optimization with PAT capabilities
- + Particle size reduction and characterization
- + Physical form stability and quantitation
- + Structural elucidation
- + Foreign particulate identification
- + Spray-drying process development
- + Amorphous stabilization
- + Early formulation composition design and development, including compatibility, stability and degradation mechanism elucidation

Formulation Development

With deep experience in the development of pharmaceutical formulations for oral, topical and injectable dosage forms, we will identify the parameters that impact the clinical performance and safety of formulations, manufacturability of dosage forms and stability in primary packaging.

- + Drug substance, blends or dry granulation in capsules/bottles
- + Sterile liquid, freeze-dried, colloidal or viscous formulation
- + Sterile suspension feasibility
- + Formulation composition design and development
- + Topical ointment, cream or lotion development
- + Solid dosage form development for tablets and capsules

Analytical Services

Our capabilities help you achieve the desired properties and performance of your compound from the world's leading experts. Our comprehensive suite of analytical services includes chromatography, micromeritics, microscopy, spectroscopy and wet chemistry.

In addition, we offer:

- + Particle engineering
- + Release testing
- + Method development and validation
- + Material science
- + Container qualification and integrity testing
- + Medical device and drug delivery testing
- + Extractables/leachables and impurities detection
- + Chiral and achiral separations via GC, HPLC and SFC
- + Chemical purification
- + Impurity isolation

Bioanalytical Services

We develop sensitive, robust bioanalytical methods for extraction and quantitation of drug and metabolites in biologic products.

Curia, formerly AMRI, is a global contract research, development and manufacturing organization, offering products and services across the drug development spectrum to help our partners turn their ideas into real-world impact. We partner closely with pharmaceutical and biotechnology companies to boost business performance and improve patients' lives.