



SOUTHWEST RESEARCH INSTITUTE



# Introduction to Pharmaceutical Development

Southwest Research Institute  
6220 Culebra Rd. • San Antonio, TX

February 24-25, 2025

## Course Overview

SwRI is hosting an Introduction to Pharmaceutical Development in-person 2-day workshop at our site in San Antonio, TX, USA. The workshop will introduce participants to a variety of topics starting with the active pharmaceutical ingredient (API) and finishing with regulatory approval. Workshop content is structured to walk participants through the process of selecting an API, synthesizing the API, formulation, analysis, testing (e.g. clinical trials), and regulatory support. Experienced SwRI staff will share perspectives and insight, along with facility tours and process demonstrations.

## Cost

The course cost is \$895 USD per registrant. Visit [pharmdev.swri.org](http://pharmdev.swri.org) to register. [Registration](#) includes course instruction, training materials provided to download, facility tour, lunches, and process demonstrations.

For more information,  
please contact:

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## Course Topics

- Identify:
  - API Modeling
  - API Generics, biologics, repurposing, orphans
- Synthesize:
  - API Synthesis
  - CMC (Chemistry, Manufacturing, and Controls)
- Formulate:
  - API Pre-formulations
  - API Formulations for drug delivery
  - Micro/nanoencapsulation
- Test:
  - Analytical (purity, impurities, stability, etc.)
  - Pre-clinical, clinical trials
- Manufacture:
  - cGMP manufacturing
  - FDA, INDs, Case Studies, Recalls

Sign up  
for e-mail  
updates



## Day 1: Identify and Synthesize

Topic:	Start	End
REGISTRATION & BREAKFAST OPENS	8:00 AM	8:30 AM
Greeting/Introduction/Logistics/SwRI Overview	8:30 AM	9:00 AM
Pharmaceutical Development Overview	9:00 AM	10:00 AM
BREAK	10:00 AM	10:15 AM
Identify - Modeling	10:15 AM	11:15 AM
Identify - Generics/Biologics/Repurposing/Orphan	11:15 AM	12:00 PM
DEMO - Modeling	12:00 PM	12:30 PM
LUNCH	12:30 PM	1:30 PM
Synthesis	1:30 PM	2:30 PM
TOUR - Synthesis Equipment/Facilities (lab-scale)	2:30 PM	3:00 PM
BREAK	3:00 PM	3:15 PM
CMC	3:15 PM	4:00 PM
TOUR - Process Scale-up Equipment	4:00 PM	4:30 PM
DAY 1 END and RECEPTION	4:30 PM	5:30 PM

## Day 2: Formulate and Test

Topic:	Start	End
Greetings/Review	8:30 AM	8:50 AM
Formulations Part I: Overview	8:50 AM	9:35 AM
Formulations Part II: Pre-formulation	9:35 AM	10:05 AM
BREAK	10:05 AM	10:20 AM
Formulations Part III: Encapsulation	10:20 AM	11:20 AM
Analytical	11:20 AM	12:05 PM
LUNCH	12:05 PM	1:05 PM
DEMO Spray Drying & TOUR Analytical	1:05 PM	2:05 PM
Pre-Clinical/Clinical Trials/cGMP Manufacturing/QbD	2:05 PM	2:50 PM
FDA and INDs	2:50 PM	3:35 PM
DEMO Fluid Bed Coating & TOUR Formulations	3:35 PM	4:35 PM
Case Studies/Recalls	4:35 PM	5:05 PM
Conclude/Q&A/Discussion	5:05 PM	5:35 PM
END	5:35 PM	

