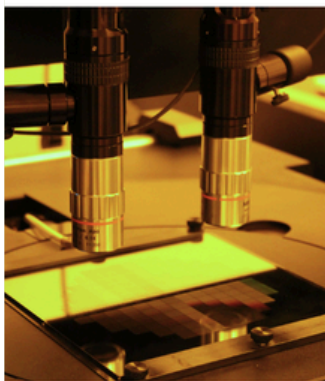
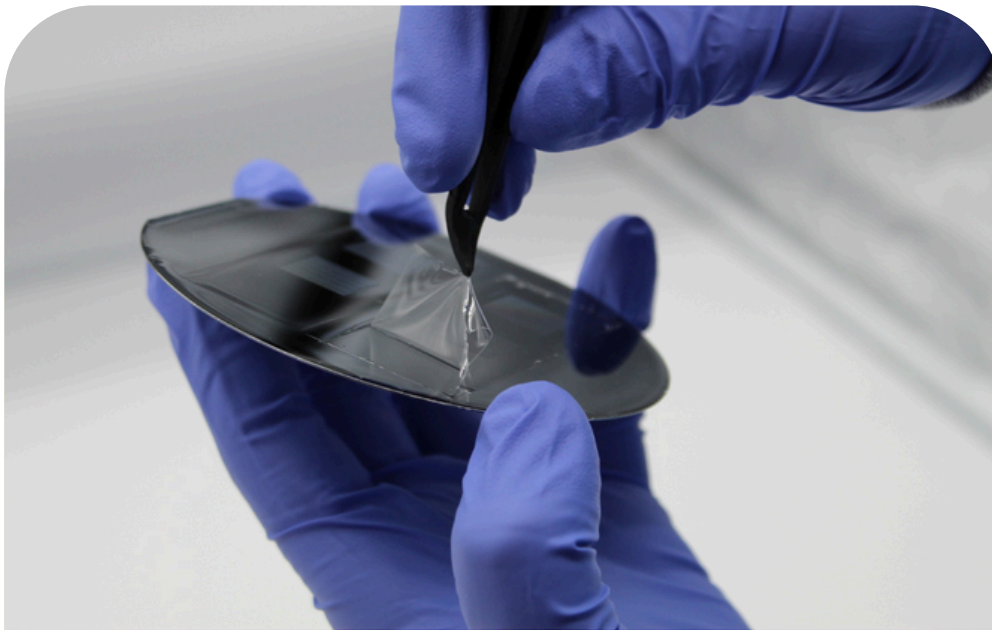


DESIGN FABRICATION SERVICES



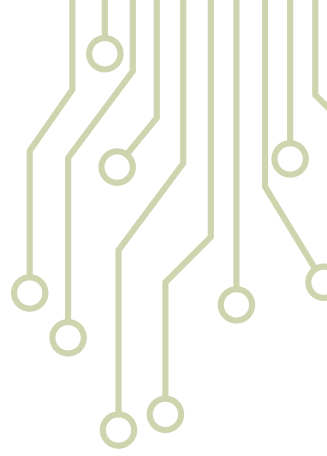
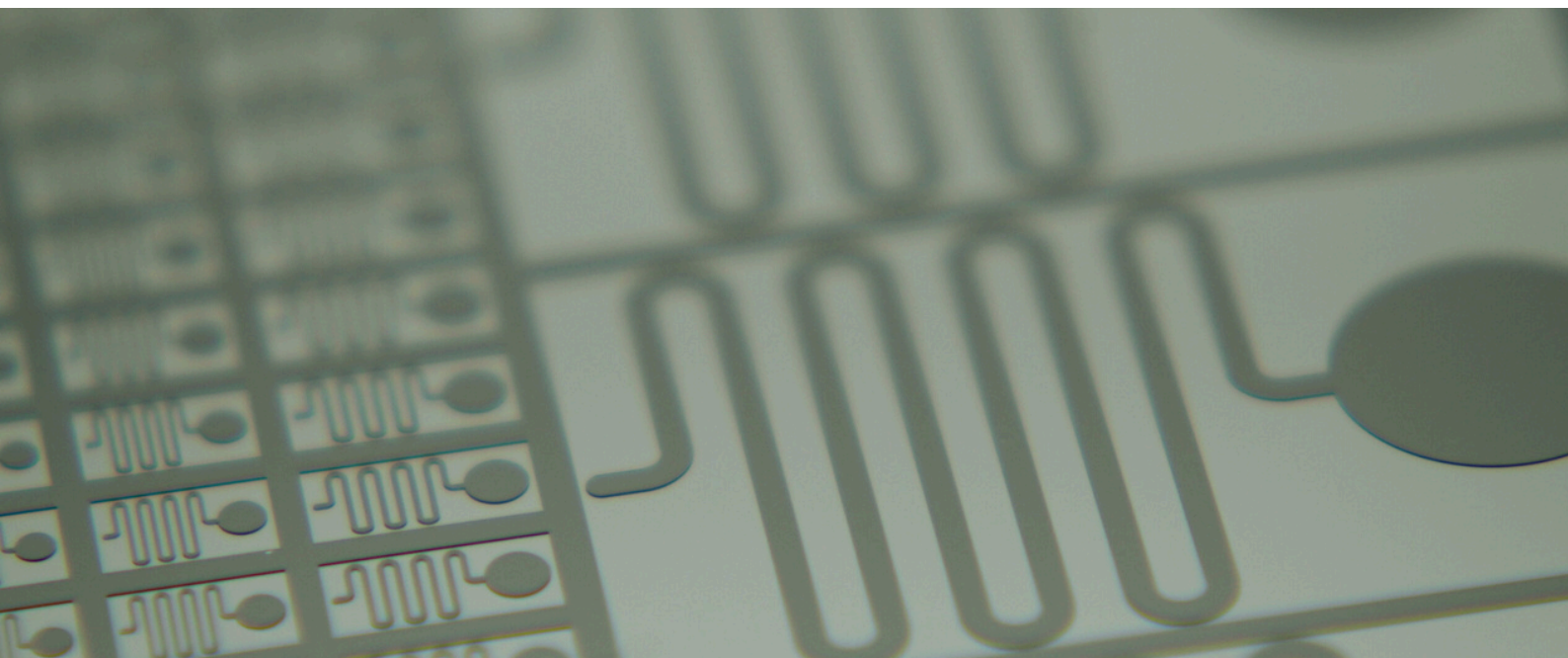


Table of Contents

Discover the difference we can make	3
Design Fabrication Services	4
Key Application Areas	5
Kayaku Engineering Process	6
Microfluidic Tools	7
Eden Tech	8
Eden Tech Tools	9
Grow Your Business with Us	10



Where Creativity meets Collaboration

DISCOVER THE DIFFERENCE WE CAN MAKE



Our Promise

At Kayaku Advanced Materials, Inc., we combine decades of expertise with innovative collaboration to deliver tailored, high-quality solutions that drive your success from inception to large-scale production



Strength of a Global Leader

Leveraging over a century of quality and innovation from Nippon Kayaku Co., Ltd., Kayaku Advanced Materials, Inc. excels as a global leader in epoxy resins for electronic applications



High Quality Standards

From development through production, we are focused on meeting the rapidly advancing demands of the technology markets. And we do it all with uncompromising and absolute quality—the only standard Kayaku Advanced Materials, Inc. follows



Collaboration drive Success

At Kayaku Advanced Materials, Inc., our commitment to conduct, creativity, and collaboration drives our success, ensuring we deliver unmatched solutions from inception to large-scale production.

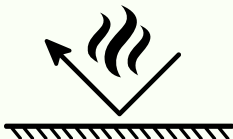
Design Fabrication Services



About Us

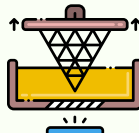
Your partner in bringing innovative ideas to life! By leveraging our extensive photoresist product knowledge and collaborating closely with designers, we offer a comprehensive solution for engineering prototypes and early-stage short-run fabrications.

Our services



COATING

The purpose of spin coating is to apply a thin film of photoresist evenly across the wafer. This is done using a spinner that rotates the wafer at a high speed allowing a small amount of liquid photoresist to spread to an even thickness.



LITHO

Lithography is the technology of projecting a pattern onto a material as an outline for the next manufacturing step.



MICROFLUIDICS

Microfluidics refers to a system that manipulates a small amount of fluids using small channels with sizes ten to hundreds micrometres.



FEASIBILITY DEMO

Feasibility demo is an assessment of the practicality of a proposed plan or method. The possibility that something can be made, done, or achieved, or is reasonable.



NEW PRODUCT INTRODUCTION

New Product Introduction is a process in which an idea is taken from the first working prototype to a refined and reproducible product. In the process, a new or improved product is defined, developed and launched through a set of activities.

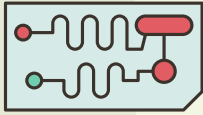


Key Application Areas

Who are we?

From development through production, we are focused on meeting the rapidly advancing demands of the technology markets. And we do it all with uncompromising and absolute quality—the only standard Kayaku Advanced Materials, Inc. follows.

Organ on a chip



Explore groundbreaking organ-on-chip technology, revolutionizing drug testing and disease modeling with human organ function mimicked on a miniature scale for precise results.

Coating



Kayaku provides advanced coating and deposition technologies for passivation, and more, including dry film resists and temporary resists for optimal functionality.

Microfluidic Cell Sorting



Microfluidic cell sorting enables precise, efficient cell separation for advanced research and diagnostic applications.

Microwells



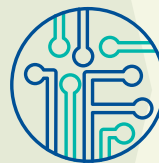
Explore our innovative solutions, where microwells redefine sample handling and dynamic live cell imaging.

Microarrays



Microarrays allow for high-throughput analysis of gene expression and genetic variations across thousands of samples simultaneously.

Microchannels

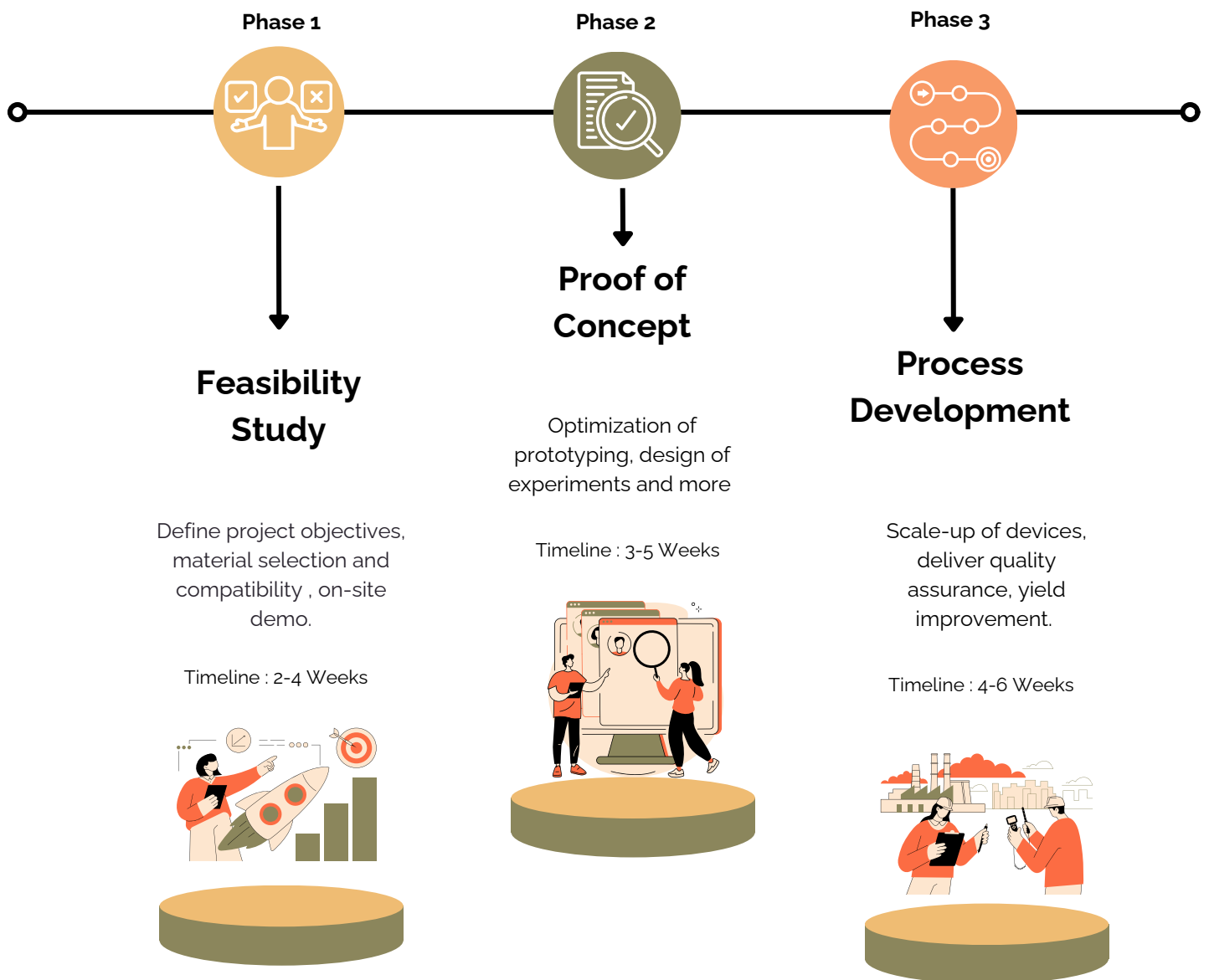


Discover the power of microchannels: precision pathways for fluid control in advanced lab-on-a-chip systems, optimizing your experiments like never before.

Together with our collaborative approach, this provides you with a unique combination of customized solutions, scalability, and corporate strength. From product inception onward, Kayaku Advanced Materials, Inc. can get you across the finish line—and then give you the tools to push into large scale production, and beyond.

Kayaku Engineering Process

Our process flows through phases to guarantee effectiveness, from development to production, aligning with the rapidly evolving demands of technology markets. At Kayaku Advanced Materials, Inc., we uphold an unwavering commitment to absolute quality—it's the only standard we follow.



Microfluidics Tools



Apogee
Spincoat/Dupont
Laminator



Apogee Hotplate



OAI (Exposure Tool)



PVA TePla Plasma Tool



Keyence/Microscope



Apogee Bonder



Tm4000plus Hitachi SEM



Grow Your Business With Us

Your innovation deserves a trusted partner. Kayaku Advanced Materials offers expert, high-performance chemical solutions for advanced electronics. Our technology portfolio specializes in engineered materials for micro-electromechanical systems (MEMS) & microelectronics, and conformal coating services & equipment.
Let's talk and see what our products can do for you.



Our Products

- Dry Film Resists
- Temporary Plating Resists
- Temporary Lift-off Resists
- Permanent Photo-patternable Epoxies
- Permanent Photo-patternable
- Low k Dielectrics

DFS Services

- Coatings
- Lithography
(single & multi-layer)
- Feasibility Demo
- New Product Introduction Demo

