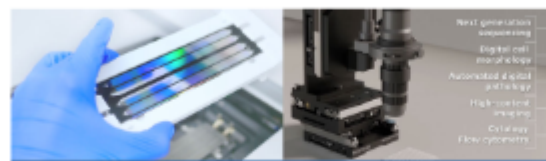


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### Embedded Motion Speeds Development of Next-Gen Sequencing Instruments

Small and precise mechatronic motion modules enhance NGS system design and performance

Since the completion of the Human Genome Project, companies are racing to develop Next-Generation Sequencing (NGS) instruments for DNA sequencing. The newest techniques and instruments are focused on two key trends: increasing throughput and reducing cost.

Achieving these goals requires designers to master miniaturization and distributed control of the photonics subsystems in the instrument. This paper delineates the inherent challenges and how embedded micro-mechatronic motion modules are helping designers meet these challenges.

David Henderson  
Founder and CEO  
New Scale Technologies  
January 2023

**New Scale  
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## Embedded Motion Speeds Development of Next-Gen Sequencing Instruments

Small, precise motion modules enhance NGS system design and performance. Following the Human Genome Project, companies are racing to develop Next-Gen Sequencing (NGS) instruments for DNA sequencing. The newest techniques focus on increasing throughput and reducing cost. To achieve these goals, designers must master miniaturization and distributed control of their photonics subsystems. This paper explores these challenges, and shows how embedded micro-mechatronic motion modules address them.

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