



# Research Fellowships

## Mani Alikhani, DMD, MS, PhD

Dr. Mani Alikhani is a faculty member at Harvard School of Dental Medicine and the Forsyth Institute.

He earned his BS in Physics, MS in Biomedical Engineering, and PhD in Molecular Biology. He also holds a DMD from Tufts University and a Certificate in Orthodontics from New York University.

As the full-time Dean of CTOR Academy, Dr. Alikhani is deeply involved in orthodontic education, research, and patient care.

He leads groundbreaking studies in accelerated tooth movement and non-surgical treatment of severe malocclusions, while also instructing students and treating patients in CTOR Ortho's state-of-the-art clinic.

# Program Director





# Research Fellowships



CTOR and Stevens Institute of Technology have joined forces to create the following programs:

- Fellowship in Translational Research (1 year)

- Fellowship/Master's Degree in Bioengineering (2 year)

- Fellowship/PhD programs in Biomedical Engineering or Biomedical Sciences (4 years)

If you have a strong desire to contribute to advancements in Orthodontics, then you will need rigorous training in translational research. The CTOR Fellowship in Translational Orthodontics Research will give you that training. Equally important, the MS or PhD you earn in combination with the CTOR Fellowship will give you the clinical and engineering credentials needed to succeed, whether your career goal is to lead an academia-based or practice-based Orthodontics research program.

# Research Fellowships

# Fellowship in Translational Research 1 Year Program

CTOR Research Fellowship includes 2 modules of 6 months each. This is a full time translational research training opportunity with exposure to didactic and hands on experience on different research methodology (histology, immunostaining, microCT, molecular biology techniques), animal research and clinical trials.

**Application Deadline:** April 30, 2025 (flexible date)

\*Application fee: \$50 USD

**Program Duration:** July 1, 2025 to June 30, 2025 (flexible dates)

We can work with you for the timing of the 1-year Fellowship, to tailor the dates to your needs. The dates for the 2-year or 4-year Research Fellowship programs must be coordinated with Stevens Institute of Technology

**Tuition Fee:** \$45,000

# Research Fellowship

# Fellowship in Translational Research 1 Year Program

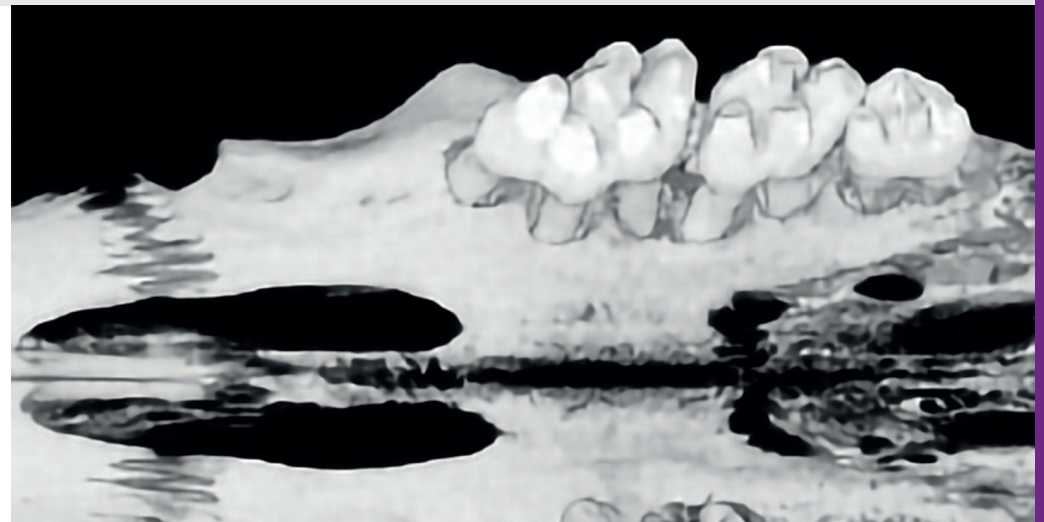
## Module I: Fundamental of Research

This fellowship is designed to provide fundamental training in craniofacial and orthodontics research for clinicians that want to widen their skills and knowledge on conducting animal and clinical research, with the objective of accelerating translation of findings into clinical applications.

## Course Highlights

- Research Designs and Protocol Development
- Animal research models
- Laboratory Safety
- Histology and immunostaining
- Light and Fluorescence Microscopy
- Protein Analysis
- ELISA methodology
- RNA and DNA Analysis.

# Research Fellowship



# Fellowship in Translational Research 1 Year Program

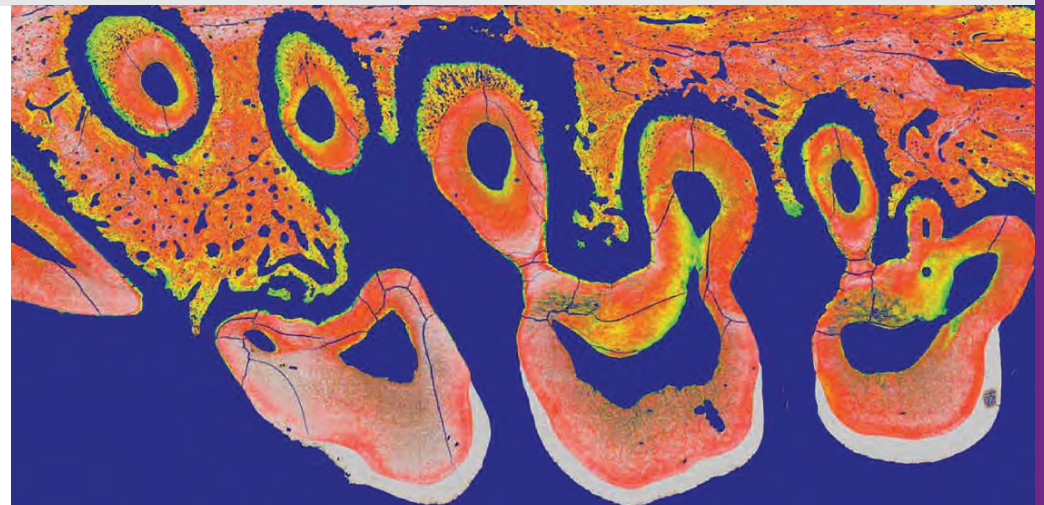
## Module II: Translational Research

The translational research module utilizes the skills acquired in Module I to bridge the gap between basic science and clinical practices. Fellows will also have the opportunity to present their research results at national and international professional conferences and publish in high-impact journals

## Course Highlights

- Clinical trials research
- Data analyses
- Histomorphometry
- Micro-CT Analysis
- Original publications in peer reviewed journals
- Ethics in Biomedical Research
- Grant writing skills
- Poster/Oral presentations at national & international conferences

# Research Fellowship





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**Join the future of  
Orthodontics!**