

### Fellowship Description:

The Innovations and Technology Program in the Digestive Disease and Surgery Institute at Cleveland Clinic was created to address opportunities to encourage novel ideas, processes, and programs in the space of digestive disease treatment and care delivery. As an organization, Cleveland Clinic is an established innovator with many medical firsts in clinical services, patient care pathways, and approaches to healthcare provision. In keeping with this progressive ethos, the Innovation and Technology program in DDSI seeks to engage a wide spectrum of caregivers to support and develop broad areas of innovation to improve care to patients in the areas of gastroenterology, general and sub-specialty surgery, colorectal surgery, and human nutrition.

Led by Matthew Kroh, MD, Vice Chair of Innovation and Professor of Surgery, , the Innovations and Technology team is building specific strategies to enhance the role of innovation and entrepreneurship in academic life along a wide-ranging spectrum of areas. The group's major focus lies in the following areas:

- Intellectual property development and work with Cleveland Clinic Innovations
- Liaising with cutting-edge industry to bring new technologies on campus
- Digital surgery and artificial intelligence as it applies to our clinical practices
- Novel means of communicating with other caregivers and patients through means of applications
- Innovation in educational activities and interacting with our education teams
- Connecting our global DDSI teams around the world, leveraging unique aspects of global footprint of the Cleveland Clinic organization

The DDSI Innovation and Technology team is recruiting for a fellowship position that would be intimately involved in the planning, development, execution, and mentorship in these diverse areas. Working closely with the core faculty, and the Innovation Council of DDSI, the fellow will have the opportunity to participate in these activities of the Institute, and gain a hands-on experience working in partner with world-class surgeons and physicians, business development managers, prototype building engineers, and procedural activities in our hands-on technology labs. Additionally, and if of interest to the fellow, outcomes research and a dedicated research experience can also be gleaned with close collaboration with Advanced Laparoscopic and Surgical Endoscopy Section in the Department of General Surgery, Cleveland Clinic.

### Goals and Objectives:

To train future innovation leaders in the field of digestive diseases. Fellows will be immersed in the clinical, research, educational, and innovation activities of the new division. The skills developed during this time can be broadly applied to leadership roles within clinical medicine, research, engineering, and administration.

#### Basic Curriculum:

Fellows will participate in all of the activities of the Innovation Program. This includes weekly team leadership meetings, meetings of the Institute-wide Innovation Council, research activities from the Advanced Laparoscopic and Robotic Surgery Section, technology laboratories in the acute and chronic setting, and all educational activities related to the program and corresponding clinical programs.

#### Recruitment:

Currently enrolled in or completion of post-graduate training program. Specific fields of study do not need to be designated. Preference will be given to those with medical and/or healthcare training. Successful applicants will have demonstrated interest in innovative programs and processes with aspirations to incorporate this unique skill set into future career progression.

#### Timeline:

1 year appointment, can be renewable. Start July 2023.

#### Bio:



Matthew Kroh, MD, FACS, FASMBS, FASGE is the Vice Chair of Innovation and Technology in the Digestive Disease and Surgery Institute at Cleveland Clinic. He is the Section Head of Foregut Surgery and Surgical Endoscopy in the Department of General Surgery, and Professor of Surgery in the Cleveland Clinic Lerner College of Medicine. He most recently served as Chair, Digestive Disease Institute at Cleveland Clinic Abu Dhabi, developing clinical, operational, educational, and research programs in the United Arab Emirates. He has previously held the positions of the Program Director for the Advanced Laparoscopic Surgery and Flexible Surgical Endoscopy Fellowship at Cleveland Clinic, the Clerkship Director for Surgery in the Cleveland Clinic Lerner College of Medicine, and the Surgical Director of both the Advanced Endoscopy Center and the Esophageal Center. He has also held the role of Director of the Center for Advanced Skills Training in the Cleveland Clinic Simulation Center. He has authored more than 100 peer-reviewed articles, 30 book chapters, and 3 textbooks. He holds Committee Chair positions in the Society of American Gastrointestinal Endoscopic Surgeons and the American Society for Metabolic and Bariatric Surgery, and he is a member of the American Surgical Association.

After earning a Bachelor of Science degree in biology from Boston College and a Master's degree from Boston University, Dr. Kroh received his medical degree from the Mount Sinai School of Medicine of New York University. He completed his General Surgery residency and fellowship training in Advanced Laparoscopic Surgery and Flexible Surgical Endoscopy at the Cleveland Clinic, Cleveland, Ohio, USA.

Dr. Kroh is committed to clinical excellence and patient-centered care, with a particular focus on surgical and endoscopic innovation. He is licensed by the State Medical Board of Ohio and board-certified by the American Board of Surgery. His specialty interests include advanced laparoscopic surgery, bariatric surgery, gastrointestinal surgery, surgical endoscopy, endoluminal procedures, and robotic surgery.

Additional Faculty

Innovation Council

CCI team

Section of Advanced Laparoscopic Surgery and Flexible Surgical Endoscopy in the Department of General Surgery