In addition to conferring the Doctor of Medicine degree, the OU College of Medicine offers residencies and fellowships in numerous specialties and subspecialties:

- In Oklahoma City, 617 residents and fellows train in 56 accredited specialty and subspecialty programs.
- Oklahoma retains 51.6 percent of physicians who complete their residencies in state.
- In 2016, the OU College of Medicine had:
  - 14,760 applicants for 124 residency positions
  - 1,825 applicants for 43 fellowship positions
- For the first time at the OU College of Medicine, several residency program coordinators have presented professional development sessions for coordinators at national meetings.
- The Graduate Medical Education Committee has formed a Resident Wellness subcommittee to develop a comprehensive wellness program focusing on the needs of residents. The Office of GME, along with the subcommittee, will achieve this by:
  - Working with the College of Medicine to identify existing campus resources and to develop resident-specific access portals.
  - Working with OU Physicians to develop OU Fit programs and other initiatives specifically focused on resident needs.
  - Working with state and national medical associations to identify resident-specific resources.
  - Raising concerns directly to departmental leadership.
  - Monitoring resident well-being through the Annual Program Review process and annual surveys.
- Through the Resident Council, residents have a participatory voice in the governance, management and policy setting of the College’s GME program. The College of Medicine, in conjunction with the OU Medical Center and the VA Medical Center, supports the Resident Council in its focus on four areas:
  - Education: Promoting high-quality educational experiences throughout the clinical education sites.
  - Patient Care: Assuring the delivery of good patient care by all resident physicians working under the full supervision of faculty members; and actively participating in the continual improvement of patient care.
  - Relationship Building: Enhancing communication and good working relationships between the College, affiliated institutions and residents; and enhancing and improving working relationships among residency programs and related hospital services.
  - Daily Living Experiences: Working with the College and affiliated institutions to address issues that affect the quality of work life and the work environment, including resident call quarters, access to information and meal availability.