Regenerative medicine is a rapidly growing field. Its fundamental goal is to restore the structure and function of damaged tissues and organs and ultimately, to cure previously untreatable injuries and diseases. Researchers are working to make treatments available for clinical use. This field encompasses many disciplines and scientific approaches. Tissue and cellular repair at a cellular level is important in a wide variety of organs including heart, skin, bone, and marrow. There are also engineering aspects including bio-printing, bio-scaffold manufacturing, organoid development, and cellular engineering. Finally, with the explosion of gene correction/gene therapy technologies now available, nearly every disease may be approached through a regenerative medicine strategy.

The tremendous interest in regenerative medicine at the University of Minnesota led to the development of this program. This is a paid research opportunity for University of Minnesota medical students between their 1st and 2nd years of training to gain valuable laboratory experience and work alongside world-renowned experts in the fields or heart, lung, and blood regeneration. Successful applicants to this program will not only attain a greater appreciation for scientific discovery and regenerative medicine in their future medical practice, but will also lay the groundwork for a career in academic medicine.

Our faculty mentors are Dr. Dan Garry, Dr. Angela Panosklatsis-Mortari, Dr. Troy Lund, and Dr. Gregory Vercellotti.

Program Benefits
- $3,974 stipend for a 2-month full-time summer research experience (July-August 2018) will be provided to four University of Minnesota medical students
- Laboratory-based research experience under the guidance of a principal investigator working in heart, lung, or blood regeneration
- Weekly regenerative medicine literature review and focused discussion between faculty and students
- Development of research poster or PowerPoint presentation from your own work
- There may opportunity to present your scientific results at a national meeting

Selection of Students
- Applicants must be first year University of Minnesota medical students in good standing at either the Twin Cities or Duluth campus
- Submit an updated CV, names and contact information for 1-2 references, and a ≤1 page cover letter that details your past research experiences and describes your interests in regenerative medicine and academic medicine to Kelly Miettunen by email landb018@umn.edu.

Application deadline is 5 p.m. Thursday, February 1, 2018, with selection of candidates expected by Thursday, February 15, 2018.

Questions should be directed to Kelly Miettunen at (612) 626-5768 or via email landb018@umn.edu.